New York City Community School Districts 27 and 29

Magnet Schools Assistance Program Grant Application (2016–19)

Project Narrative

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COMPETITIVE PREFERENCE PRIORITIES

Competitive Priority #1: Need for Assistance (5 points)

(A) The Secretary evaluates the applicant’s need for assistance under this part, by considering the costs of fully implementing the magnet schools project as proposed.

New York City (NYC) is generally touted for its diversity, but recent research has brought attention to the fact that it is also home to one of the most segregated public school systems in the country. Research conducted by the Civil Rights Project at UCLA found extreme isolation among minority groups in schools in many parts of the city (Kucsera & Orfield, 2014).

NYC is home to more than 1.1 million public school students, who together are served by the 1,800 schools of the New York City Department of Education (NYCDOE). The NYCDOE comprises 32 community school districts located across the city’s boroughs, spanning from areas of high poverty and unemployment to the wealthiest parts of Manhattan and Brooklyn. Despite the extreme wealth among New Yorkers, the poverty rate of public school children is 76.5%. The student population is ethnically diverse; 40.5% of students are Hispanic/Latino, 27.1% are African American, 15.5% are Asian, 14.8% are White, and 2.1% represent other ethnicities. Additionally, 12.5% of students are English language learners (ELLs) and 18.7% qualify as students with disabilities.

In preparation for the 2016–19 funding cycle, the NYCDOE conducted an initial feasibility study to determine those communities within the city that presented the most compelling need for reducing minority group isolation (MGI) and at the same time provided fertile terrain for seeding an MSAP initiative. Community School Districts 27 and 29, which are working as a consortium for the MSAP grant, met these two primary criteria. The D27-29 consortium is
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requesting a total three-year grant in the amount of $11,475,000 from the Magnet Schools Assistance Program to convert five elementary schools into whole-school magnet programs. All five schools are experiencing high degrees of MGI of Hispanic students (two schools), African American students (two schools), or Asian students (one school). The rates of MGI range from a low of 10 percentage points above the district-wide average to a high of 40 percentage points above the district-wide average at the same educational level. Collectively, the five schools serve a total of 3,113 students in grades pre-K–5.

As described in various narrative responses to the MSAP selection criteria, the planning process for the development of theme-based magnet programs is well under way, but an infusion of resources provided by MSAP is required to bring these unique educational programs to fruition and support efforts to provide more diverse learning environments for the students attending these schools. Funding from the MSAP will support the following mission-critical initiatives.

- **Designing and implementing exciting and rigorous educational opportunities at the elementary and middle school levels that will attract the population of families we are trying to recapture**

  Curriculum development around the magnet themes will revitalize the curriculum, making it more attractive to a diverse population of students and families, and will enable magnet school students to meet challenging academic standards. D27-29 has requested funds to provide sufficient time for magnet school teachers to engage in curriculum development activities both during and after school, which will be guided and supported by the full-time, MSAP-funded Curriculum Specialist and full-time Outreach and Technology Coordinator as well as an array of external partners. The site-based, MSAP-funded Magnet Resource Specialists, in collaboration
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with classroom teachers and other school-based staff, will develop, enhance, and strengthen the magnet themes at their schools, including developing or modifying theme-related enrichment and curricular materials to be aligned with NYS P-12 CCLS, the Next Generation Science Standards (NGSS), the New York City STEM Framework and Scope and Sequence in Science and Social Studies, and the NYC Blueprint for the Arts.

- **Carrying out aggressive, targeted, and multimodal outreach campaigns to inform parents of the schools’ innovative and rigorous academic offerings**

  Aggressive and targeted outreach and recruitment, designed using best-in-class communication and dissemination strategies, will be used to promote awareness of the magnet program offerings in order to attract a more diverse population of families than is currently attending the proposed D27-29 magnet schools. Serving as the linchpin of the voluntary desegregation strategy, both district- and school-based staff, with support and guidance from the MSAP Project Director, will engage in numerous activities (e.g., development of promotional materials, establishment of relationships with the local press, creation of a strong social media presence, formation of linkages with CBOs) throughout the project period to inform families about D27-29’s magnet schools. In our experience, this initial investment in PR and communications strategies pays off once the excitement about the schools builds and word of mouth can substitute for fee-based advertising. Moreover, the Magnet Project Director will work closely with staff from the Superintendents’ Offices, the Borough Field Support Centers, and the NYCDOE’s Office of Student Enrollment to ensure that the magnet programs designed and implemented are fully accessible to all students in these buildings, including those who have special needs.

- **Designing and carrying out rigorous and sustained PD for magnet school staff on**
A strong and targeted PD program must be implemented to improve teaching and learning practices among D27-29 educators and equip them with the skills and knowledge to incorporate innovative and effective educational methods and practices into classroom instruction. Specifically, MSAP funds will be used to support partnerships with educational organizations that bring specific expertise in the instructional practices that will be fostered across the five proposed magnets, including OMNiLEARN (support for developing curriculum aligned to the NGSS); the Buck Institute for Education (support for effective and sustained implementation of PBL); the City Technology Project at the City College of New York (PD to integrate science, literacy, and art into the elementary and middle grades through a focus on engineering design); Education Closet (curriculum development and support for STEAM strategies); and Maria Pacheco from the Education Alliance at Brown University (strategies for building cultural competence, with a focus on ELL learners). In addition, each school has a PD plan to support the implementation of its individual program design and build a solid foundation for program sustainability beyond the grant period.

- Developing and sustaining collaborations to support student enrichment activities

Collaborations with community partners serve to supplement, deepen, and expand the opportunities students have to engage in authentic, hands-on activities in real-world settings. In addition, these partnerships can allow the schools to tap a resource network of volunteers and corporate supporters that are vital for sustaining the magnet programs after the initial infusion of federal funding. As evidenced by the letters of support in the Optional Attachments and the site-based budgets, as well as descriptions provided in the Quality of Project Design section and the
response to Competitive Preference Priority 4, each magnet school will establish or expand collaborations with a variety of outside organizations to enhance curricular offerings for students both during and beyond the school day. Exposure to the kinds of enrichment experiences these partnerships can offer (including field trips, distance learning activities, and elective courses) gives students attending high-poverty, MGI schools opportunities they would not ordinarily get either at home or in school.

- Providing the necessary district-level coordination to ensure effective and efficient coordination of MSAP resources in the service of the project’s objectives and performance measures

The core team that will spearhead the implementation of the D27-29 MSAP initiative is a seasoned group of NYCDOE staff members who have mounted several successful MSAP projects across the city. They will bring this expertise to the D27-29 project, if it is awarded (see the Quality of Key Personnel section for details). This team, headed by the full-time Project Director, will ensure that all of the proposed magnet school activities are proceeding on schedule and in accordance with program guidelines and will be responsible for meeting with magnet school staff on a regular basis (the roles and responsibilities of the team are described in detail in the Quality of the Management Plan section). The MSAP project design is complex and multifaceted; coordination of this interdistrict program would be impossible in the absence of this core team.

In addition, MSAP funds will permit a comprehensive formative and summative evaluation of the project over its lifespan. D27-29 will engage the services of an external evaluation firm that has a 25-year history of evaluating MSAP initiatives in NYC as well as in districts across the country, and so brings to this effort a deep understanding of and commitment to the core
principles of magnet school programming. This evaluation will provide timely, objective, and strategic feedback to the MSAP planning team and the school planning teams so that they are able to make midcourse corrections to improve the delivery of program services, which in turn will enhance the impact of the program on staff and student outcomes.

*(B) The Secretary evaluates the applicant’s need for assistance under this part, by considering the resources available to the applicant to carry out the project if funds under the program were not provided.*

In 2006, the advocacy group Campaign for Fiscal Equity (CFE) successfully argued that the state’s school finance system underfunded NYC public schools, prompting the NYS legislature to pass the State Education Budget and Reform Act of 2007, which committed the state to more than $7 billion in increased school funding, to be phased in over the course of four years. About $3 billion of this was to be directed to schools in NYC, with the rest going to schools elsewhere in the state. While there have been increases in state funding to the NYC public schools over the last nine years, by all accounts the state has failed to meet its constitutional obligation to “ensure a sound basic education to all children of the State.” The most recent budget passed by the NYS Legislature included a general increase in state education aid, but it fell $800 million short of what the Assembly and many advocates had hoped for. In fact, the sums dictated by the CFE lawsuit would have required an infusion of nearly $4.5 billion. Among the big winners were charter schools, which were slated to receive $430 more per student; in addition, the rule requiring New York City to help some charter schools pay rent will become permanent. Moreover, up to $175 million of this aid will be directed toward turning struggling schools into “community schools,” a school improvement strategy favored by NYC Mayor Bill de Blasio.

At the city level, there are also “big winners” in the K–12 budget landscape. In addition to a
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significant expansion in the number of Community Schools (an additional 128 schools, including the transformation of 94 Renewal Schools into Community Schools), among the most significant initiatives to receive an infusion of dollars are the full-day pre-K for all four-year-olds, an expansion of after-school programs for middle school students, and reforms that were included in the recently negotiated UFT contract (i.e., Model and Master Teacher positions).

Of particular relevance to this grant is the Administration’s Equity and Excellence initiative, launched in September 2015. Designed to provide a foundation for every student in every school to help prepare them for success in college and future careers, the initiative features universal literacy, algebra for all, AP for all, college access for all, computer science for all, district charter learning partnerships, and Single Shepherd (a guidance initiative focused on students in grades 6–12 in two community school districts).

(C) The Secretary evaluates the applicant’s need for assistance under this part, by considering the extent to which the costs of the project exceed the applicant’s resources.

The commitment of the two Community Superintendents to—and the Chancellor’s endorsement of—the modifications to the Voluntary Desegregation Plan and to the implementation of the interdistrict magnet program is evident. This support notwithstanding, the costs of fully implementing the D27-29 magnet program as designed exceed the available resources. Given the fiscal climate within New York State and New York City and the budgeting priorities described above, D27-29 would be hard-pressed to implement the magnet program as designed in the absence of a grant from MSAP. Importantly, the average per-pupil expenditure associated with the implementation of the magnet program is $3,686 in excess of the standard per capita allocation per student.
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(D) The Secretary evaluates applicant’s need for assistance under this part, by considering the difficulty of effectively carrying out the approved plan and the project for which assistance is sought, including consideration of how the design of the magnet school project impacts on the applicant’s ability to successfully carry out the approved plan.

As was described in the first section of this proposal, the communities in which the five proposed magnet schools are located are experiencing high levels of MGI. However, it was determined through a rigorous feasibility study carried out by the NYCDOE that there is potential within and across these two community school districts to move the needle on student diversity with an infusion of human and fiscal resources, such as those afforded by a federal magnet grant. The most recent research carried out by desegregation experts is clear that in the absence of a magnet program intervention, NYC public schools will likely continue to become more and more segregated (Kucsera & Orfield, 2014).

As described throughout this application and highlighted in Section A of this CPP narrative, MSAP funding is directly aimed at creating compelling, appealing, and innovative learning environments with state-of-the-art technology, proven instructional methods, and a culture of entrepreneurialism within the NYC public school system that will cause parents who are not currently sending their children to these schools to stand up and take notice. The five school communities included in this application are ready, willing, and able to accept this challenge, but they cannot bring the vision of the magnet programs to fruition without a significant infusion of resources. MSAP is the only funding source at the local, state, or federal level that promotes the twin principles of equity and excellence in education.

Competitive Priority #4: Promoting Science, Technology, Engineering, and Mathematics (STEM) Education (0 to 5 points)
Projects that are designed to improve student achievement (as defined in this notice) or other related outcomes by supporting local or regional partnerships to give students access to real-world STEM experiences and to give educators access to high-quality STEM-related professional learning.

Research indicates that one of the best ways to build interest in science, technology, engineering, and math (STEM) among children and adolescents—and especially students from racial and ethnic minority groups—is to provide hands-on applications of STEM learning (Hayden et al., 2011; Ilumoka, 2012). These types of programs, which may include extracurricular clubs, competitions, or activities during the school year as well as summer bridge and research opportunities, have proven to increase student engagement and motivation to pursue STEM fields (Maton et al., 2009). Building interest in STEM is a fundamental component in preparing students to persist in STEM postsecondary and career opportunities (Hayden et al., 2011). These opportunities are especially important in schools that are minority group isolated because they can serve to help increase representation among racial and ethnicity minorities in STEM fields. These groups, which generally include African American and Hispanic students, as well as female students, are considered underrepresented in STEM due to lower rates of participation than their White, Asian, and male peers (National Science Foundation, 2013).

The NYC Tech Talent Pipeline, a $10 million public-private partnership, was created in May 2014 to define employer needs, develop and test training and education solutions to meet these needs, and scale solutions that work throughout the city’s largest systems, delivering homegrown talent for 21st-century jobs across the city. In February 2015, the city established the Tech Talent Pipeline advisory board, which is composed of 25 high-level tech executives—including AT&T New York President Marissa Shorenstein, Fred Wilson of Union Square Ventures, and Chris
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Hughes of Facebook and the New Republic—who help advise the NYCDOE on its STEM offerings.

STEM plays a critical role within the D27-29 schools and across all NYCDOE schools, as City Schools Chancellor Carmen Fariña has made boosting STEM opportunities one of her top priorities. To accomplish this, NYCDOE has established new community and industry partnerships, dramatically increased STEM offerings, and expanded supports for students, teachers, and schools around implementation of STEM-based learning. In 2015, NYCDOE released the department's new STEM Education Framework, an evidence-based tool that provides a structured approach for schools seeking to organize and develop the implementation of a STEM initiative whose results are repeatable. It includes a readiness checklist of structures, criteria, and systems and is not intended to be judgmental or evaluative. The architecture of the Framework is presented as a structure of domains, indicators, and criteria to support the evolution of a school’s initiative over time. The Framework is designed to work alongside other data and qualitative tools to help schools develop a STEM culture that integrates well with a school’s existing instructional mission and vision, while shifting the disciplinary paradigm from multidisciplinary and interdisciplinary toward instruction and learning that is ultimately transdisciplinary.

As part of its commitment to working with school leaders and teachers to build their capacity in and develop a shared understanding of high-quality STEM education, the City launched the STEM Institutes in 2015, a three-year professional learning initiative. Through generous support from partners—the General Electric Foundation and Computer Science for All—the STEM Institutes provide professional learning opportunities to schools in their efforts to identify and develop a STEM focused approach to learning that supports student achievement and reduces the
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achievement gap. The third STEM Institute, which was recently completed over three days in April 2016, aimed to help teachers: develop a shared understanding of the important features of STEM and computer science education; develop an awareness of approaches to STEM and computer science education; build their leadership capacity to support STEM and computer science education within their school communities; and begin to build partnerships with other schools with similar interests to support their STEM and computer science initiatives. During the training, teams of two to three teachers engaged in hands-on, interactive sessions in robotics, computer science, urban gardening, engineering, solar energy, and design thinking. This institute also featured the Apple Professional Leadership (APL) track for Principals who wished to develop or enhance their vision of how technology can be used to enhance learning. This session for school leaders used Challenge Based Learning, an engaging, multidisciplinary problem-solving approach. Participating Principals identified initiative goals, explored a model for managing change, and developed plans for ongoing engagement and measuring effectiveness.

Staff from the D27-29 magnet schools will participate in these institutes to build their STEM content knowledge and pedagogy starting in Year 1 of the grant.

The NYCDOE has also established numerous new partnerships with local businesses and utilized local resources to create customized, sustainable STEM programs that connect schools to their surrounding communities and help prepare students for careers in the STEM fields. A notable example of these efforts is a partnership with AT&T, which is funding NYC STEM programs with a $1.6 million grant to NYCDOE. In addition, NYCDOE has teamed up with partners such as Cornell Tech and Google to offer summer coding conferences for students.

In developing authentic experiences in the new magnet programs, D27-29 will tap into the wealth of resources provided through NYCDOE, and the City at large, to expand and enrich
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STEM learning opportunities for student and teachers. Additionally, D27-29 will expand and develop new partnerships with STEM organizations specifically to provide authentic experiences for students and teachers related to the new magnet themes. These experiences will include curricular and extracurricular activities that are designed to engage learners (students and teachers) with practitioners from STEM disciplines to promote real world understanding. Each of these partnerships is described in the following.

Partnerships to Enhance STEM Learning

A key component of the magnet programs across the five sites is a strong instructional focus on problem-based learning to engage students in hands-on research, experiments, and activities to develop solutions to real-world issues. Table 13 presents the five schools’ proposed magnet themes and a description of how these themes are aligned with and will result in authentic STEM learning for students.

Table 13. D27-29 Magnet Theme Alignment With STEM Priority

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<th>District</th>
<th>School</th>
<th>Theme</th>
<th>STEM/STEAM Alignment</th>
</tr>
</thead>
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<tr>
<td>27</td>
<td>PS 62</td>
<td>Computer Science and Innovation</td>
<td>Students will engage in real-world problem solving through an interdisciplinary curriculum incorporating computer science, arts, and STEM.</td>
</tr>
<tr>
<td>27</td>
<td>PS 254</td>
<td>Leadership Development and the Arts</td>
<td>The school will implement a student-driven magnet program that is centered on leadership with transdisciplinary connections to the arts and technology.</td>
</tr>
<tr>
<td>27</td>
<td>PS 316</td>
<td>Global Conservation</td>
<td>The school will infuse global conservation into content-area instruction using transdisciplinary, six-week units.</td>
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<th>Theme</th>
<th>STEM/STEAM Alignment</th>
</tr>
</thead>
<tbody>
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<td>29</td>
<td>and Service Learning</td>
<td>Each unit will feature content-aligned service learning projects that will provide students with opportunities to influence their local and global communities.</td>
</tr>
<tr>
<td>29</td>
<td>Innovation, Exploration and Engineering</td>
<td>The school will develop thematic, cross-content units of study that will immerse students in innovation, exploration, and engineering. The engineering process—problem, design, test, and evaluate—will be replicated across content areas.</td>
</tr>
<tr>
<td>29</td>
<td>Multimedia Arts and STEM</td>
<td>STEM-infused, hands-on learning and enrichment will engage students in use of state-of-the-art technologies to complete video storytelling, coding, robotics, digital design, and journalism.</td>
</tr>
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The following partnerships will provide authentic opportunities for students to learn STEM content and methodology through PBL and gain a stronger understanding of real-world STEM concepts and applications. District partners are presented first, followed by school partners.

### District Partners

**Big Idea Week.** One of the partners that will be supporting the five D27-29 schools in providing STEM-based enrichment is Big Idea Week (BIW). The mission of BIW is to “connect communities to light the imaginations of students and inspire them to be the next generation of makers and doers.” To accomplish this goal, BIW pairs students with volunteer mentors—local STEM, media, and design professionals from companies such as Facebook, Etsy, MakerBot, and
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Tech Insider—to collaborate on weeklong, immersive, entrepreneurial projects. These projects provide students with unique opportunities to develop 21st-century skills, and interact with local professionals in the STEM fields. BIW will collaborate with D27-29 school- and district-level magnet staff to recruit mentors and provide resources to support BIW programming at the schools. This includes the BIW project-based curriculum that will expose students to 21st-century careers and standards-aligned skills, from critical thinking and creativity, to collaboration and communication. Throughout the week, students will practice researching, writing, and public speaking within a real-world, STEM-based context. By encouraging students to see the world through the eyes of an entrepreneur as problem solvers, risk takers, and innovators, the BIW projects will build students’ curiosity and confidence and give them the tools to bring their own ideas to life. Through this partnership, students will also have opportunities to complete hands-on engineering and robotics courses that will expose them to engineering, architecture, and physics concepts within a lab setting.

The Buck Institute for Education. The Buck Institute for Education (BIE) supports schools in implementing effective PBL instructional practices. BIE will provide the five D27-29 schools with rigorous PD, in the form of training and coaching, on how to design and implement PBL activities that engage and motivate students. BIE will help bring coherence to PBL practices and support the creation of school-wide processes and structures to support PBL and STEM education.

School Partners

New York Hall of Science. PS 62 and PS 195 will partner with the New York Hall of Science (NYSCI), NYC’s premiere hands-on science and technology center, to provide students with engaging, interactive STEM enrichment. NYSCI will provide both schools with a variety of
on-site and off-site activities, including field trips to NYSCI, which will support and enhance STEM learning.

**Salvadori Center.** A partnership with the Salvadori Center will provide students at PS 52 and PS 195 with collaborative, hands-on PBL through the study of buildings, bridges, parks, and communities.

**Beyond Tutoring.** The mission of Beyond Tutoring, proposed PS 195 partner, is to expose, inspire, and motivate students to pursue education and career opportunities within the STEM disciplines. Through Beyond Tutoring’s STEMulate Your Future program, students at PS 195 will engage in hands-on, project-based STEM learning activities that will promote development of their higher-level problem-solving skills.

**CUNY Creative Arts Team.** Through a partnership with CUNY Creative Arts Team (CAT), PS 52 will receive a magnet residency that will support the growth and well-being of students by identifying and responding to their personal, social, and educational needs through theater and participatory drama facilitated by a professional actor-teacher. CUNY CAT will support the theme of innovation and engineering through direct student services that will foster discovery and expression.

**Partnerships to Enhance STEM Teaching**

The following partnerships will help strengthen the capacity of staff at the five grant schools to plan and deliver effective STEM content and methodology. District partners are presented first, followed by school partners.

**District Partners**

**Education Closet.** Through a district partnership with Education Closet, the five District schools will receive intensive training and support for integrating STEAM into the core
curriculum. Education Closet provides consulting services to schools and school districts in developing, implementing, and assessing STEAM approaches to education. These services are provided through their website, EducationCloset.com, as well as through individual consultative services. For the five schools, Education Closet will provide a three-tiered training model over the course of the grant using STEAM as a core strategy for student success in academic achievement. The three tiers of the model are staff development, implementation, and fostering community connections to create a self-sustaining STEAM model. Over the three years of the grant, Education Closet will provide the schools with in-person, hands-on teacher trainings and workshops focused on building staff capacity to integrate STEAM into the Common Core; co-teaching, job-embedded coaching; curriculum and assessment mapping and lesson writing; strategies for partnering with teaching artists and community members to support STEAM learning; and coaching and supplemental support for teaching teams through a virtual training platform, The Learning Studios. Education Closet will collaborate on an ongoing basis with school and district leaders and magnet specialists to ensure that they are supporting the needs of their staff and will support the schools in cultivating community support and establishing partnerships to support STEAM integration. In the second and third years of the program, the services provided by Education Closet will build upon and reinforce what was provided in the previous years. In the third and final year, supports will focus on sustainability and include assistance in shifting the capacity for extension to school leaders and staff.

Support for D27-29’s PBL focus will be provided by OMNiLEARN, a Science education program staffed by scientists and teachers that provides in-class, hands-on laboratories for students and staff development to teachers. OMNiLEARN will provide hands-on, project-based Science learning to students at the five D27-29 schools and will be supporting the program
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through onsite PD. At the outset of the program, OMNiLEARN will meet with district and school leaders and magnet-funded staff to customize content based on curricula and performance levels. They will then provide teachers with hands-on science workshops to boost teacher literacy, proficiency, and confidence in using science as a hook to teach math and ELA skills. By the end of the day-long workshops, teachers will be comfortable with the content, vocabulary, and equipment, and begin to visualize conducting the labs in their classrooms. Staff development will also be provided through the student Science labs, which will provide teachers with experiential PD as they learn alongside their students. Teachers will benefit from the labs in three critical areas continuously updated content literacy and equipment proficiency, classroom modeling, and small group experience.

**City College City Technology Project.** The City Technology team consists of NYCDOE elementary teachers and City College faculty members. They will provide technology-infused curriculum units on Force and Motion and Energy Systems, aligned with CCLS Standards in Math and ELA and the NYC Science Scope and Sequence and STEM Framework, that address concepts of physical science, engineering, and computer science. Staff development will include on-site, job-embedded coaching and modeling.

**School Partners**

**New York Hall of Science.** As described, PS 62 and PS 195 will partner with the New York Hall of Science (NYSCI). NYSCI, one of the City’s leading providers of in-service training for teachers, will provide various on-site and off-site staff development opportunities for teachers at both schools, which will support their implementation of STEM-based learning.

**LEGO Education.** PS 316 will partner with LEGO Education, which has a long track record of providing STEM-based PD to NYC schools, with the mission of preparing teachers to make
abstract STEM concepts tangible for students. Lego Education will provide teachers and magnet staff at PS 316 with hands-on PD workshops, embedded coaching, and manipulatives to help support their implementation of STEM learning in the classroom.

**DevTech Research Group at Tufts University.** PS 62 will partner with DevTech to provide training to teachers in integrating the KIBO robotics program. A DevTech team member will travel to the school twice a year to provide on-site PD and coaching to help the teachers implement the curriculum and to provide the needed scaffolds. In addition, through this partnership, three teachers will enroll each year in the Tufts graduate certificate program on early childhood technology. Participating in this graduate certificate program will engage teachers in building the needed skills to take back to their school and become leaders in this area.

**CUNY Creative Arts Team.** As described earlier, CUNY CAT will provide PS 52 with a residency to support STEM-based thematic learning. This residency will include workshops and embedded coaching facilitated by CAT’s professional actor-teachers, who will train staff in using drama-based engagement strategies to support STEM learning.

**COMPETITIVE PRIORITY #5: SUPPORTING STRATEGIES FOR WHICH THERE IS EVIDENCE OF PROMISE**

*Projects that propose a process, product, strategy, or practice supported by evidence of promise*

In preparation for the 2016–19 funding cycle, the NYCDOE conducted an initial feasibility study to determine those communities within our city that presented the most compelling need for reducing minority group isolation and at the same time provided fertile terrain for seeding an MSAP initiative. Community School Districts 27 and 29, which are working as an inter-district consortium for the MSAP grant, met these two primary criteria. All five schools in the D27-29 consortium are experiencing high degrees of minority group isolation of Hispanic, African
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American, or Asian students, ranging from a low of 10 percentage points above the district-wide average to a high of 40 percentage points above the district-wide average at the same educational level. Collectively, the five schools serve a total of 3,113 students in grades pre-K–5.

With the implementation of the proposed D27-29 magnet initiative, NYCDOE is creating a consortium of magnet districts to expand its efforts to promote racial, ethnic, and socio-economic integration in schools using an inter-district approach (thereby meeting the Invitational Priority under the Evidence of Promise Competitive Preference Priority). Students in both districts will have options to pursue rigorous and attractive magnet programs within and across the district boundaries.

Citation 1:


Weblink: http://epa.sagepub.com/content/31/4/323 (full citation is included in Attachments)

Citation Outcomes: This study used a regression analyses and propensity score methods to control for pre-treatment differences in achievement among students who were admitted to one of six magnet schools operated by the Capital Region Education Council (CREC), an interdistrict magnet choice program in Connecticut. The cohort in the study was composed of 886 students who were participated in magnet lotteries for Connecticut’s interdistrict magnet programs. Results of the data analyses indicated that after controlling for pre-existing differences, students who were randomly-assigned through the lottery process to interdistrict magnet programs had higher academic achievement outcomes in and reading and math than those who were not selected in the lottery. The study examined the impact on using interdistrict magnet program choice on promoting integration in efforts to improve student academic outcomes. Interdistrict
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magnet schools provide students from Connecticut’s most racially and ethnically isolated areas the opportunity to join less isolated learning environments. Findings showed that interdistrict choice produced positive student achievement outcomes in reading and math.

**Relevance to Proposed Project:** NYCDOE will use a similar interdistrict process for its proposed D27-29 magnet initiative by providing options for students in both districts to enroll in one of five new elementary magnet programs. The racial and ethnic demographics of students served by the new magnet programs are very different: two of the D27 schools experience MGI among Hispanic students; the third D27 school among Asian students and two D29 schools experience MGI among African American students. The D27-29 magnet initiative is proposing to use a similar interdistrict magnet choice process to expand opportunities for students of different racial and ethnic backgrounds to attend new magnet programs together, in which they will participate in rigorous and engaging thematic curriculum and project-based learning to better prepare them for high school, college and careers and attain higher levels of reading and math achievement.

**In addition to meeting the Invitational Priority for Evidence of Promise, one component of the PD model that will be implemented in the D27-29 magnet initiative meets Evidence of Promise standards.** The professional development plan for the D27-29 magnet initiative will provide experiences that are of sufficient quality, intensity, and duration to lead to improvements in teacher practice. D27-29 will provide intensive PD to school leaders, MSAP-funded staff, classroom teachers, and other support staff in each school that will equip teachers with knowledge and skills to conduct inquiry-based instruction and facilitate student and teacher inquiry and reflection in learner-centered environments.

**Citation 2:**
Citation Outcomes: This study includes a randomized experiment in six states with over 270 elementary teachers and 7,000 students to examine to compare the outcomes of three strategies for teacher staff development and a no-treatment control group. The three interventions included a total of 24 hours of professional development offered in eight three-hour sessions. The three intervention strategies—Teaching Cases, Looking at Student Work, and Metacognitive Analysis—were designed to include key features identified in literature on effective PD including: in-depth focus on science content activities that build on teacher knowledge, opportunities to engage in active learning, alignment to standards-based curricula, substantial duration, and collaboration and collective participation.

To analyze the impact of PD, researchers established baseline equivalence for teachers and students in science content knowledge and demographic characteristics to ensure that the groups were statistically similar. They then administered two tests of science content assessment developed and validated in previous studies. Data for two cohorts of teachers and students were analyzed using hierarchical linear modeling to determine impact of intervention on treatments. Results of the analyses showed statistically significant gains in teacher AND student scores on tests of science content knowledge during the study year and the follow-up year for all three interventions, as well as statistically significant gains in written justification items for teachers and students. Using these findings, researchers concluded that “investing in professional
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development that integrates content learning with analysis of student learning and teaching rather
than advanced content or teacher metacognition alone.”

**Relevance to Proposed Project:** The D27-29 magnet initiative is designed to engage
teachers in ongoing PD and active reflection of student work and teacher strategies and processes
to positively affect student learning and achievement. The magnet initiative is implementing a
three-pronged approach to professional development which will engage all instructional staff
across the five schools in more than 50 hours of training in each year of the grant.

Teachers will participate in staff development workshops with STEM partners to be exposed
to innovative instructional strategies—the first step in the process. As step two, teachers will
look at and review student work carefully using the ATLAS protocol to evaluate elements of
student learning. The ATLAS – Learning for Student Work protocol is a tool developed by Eric
Buchovecky, and is based in part on the work of the Leadership for Urban Mathematics Project
and of the Assessment Communities of Teachers Project. The tool also draws on the work of
Steve Seidel and Evangeline Harris-Stefanakis of Project Zero at Harvard University. The
protocol includes guiding questions to help teachers discuss evidence of student thinking, listen
to colleagues’ feedback, and reflect on their own thinking.

Lastly, teachers will use PLCs to discuss their own instructional units and materials using the
Critical Friends protocol published by the National School Reform Faculty to reflect on effective
strategies and practices. The Critical Friends process provides an opportunity both to solicit and
provide feedback on teaching and instruction (or other pertinent topics) in a manner that
promotes reflective learning. Taken together, the phases of training will engage all teachers in
ongoing continuous improvement of teacher that will produce positive outcomes for students.
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SELECTION CRITERIA

(A) Desegregation (30 points)

*The Secretary reviews each application to determine the quality of desegregation-related activities.*

While New York City is generally touted for its diversity—and this is in fact well-deserved recognition—recent research has brought much attention to the fact that it is also home to one of the most segregated public school systems in the country. Research conducted by the Civil Rights Project at UCLA found that 19 of the NYCD OE’s 32 community school districts had extreme isolation among African American and Latino students and enrolled fewer than 10% White students (Kucsera & Orfield, 2014).

In response to these disturbing findings, drawing on decades of research on the myriad academic and social benefits of diverse schools (National Center for Education Statistics, 2015; Tefera et al., 2011; Wells, Fox, & Cordova-Cobo, 2016), the New York City Council in May 2015 unanimously adopted by voice vote Resolution Number 453, which called upon the NYCDOE “to officially recognize the importance and benefits of school diversity and to set it as a priority when making decisions regarding admissions policies and practices, creation of new schools, school rezoning and other pertinent decisions and commit to having a strategy in each district for overcoming impediments to school diversity.” The Council went further, passing Local Law 59, which amended the administrative code of the city of New York, “in relation to requiring the department of education to report annually on student demographics in community school districts and high schools.”

Bolstering the attention that the City Council brought to this issue, in one of his last initiatives as New York State Commissioner, now Education Secretary John King launched the
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first school integration pilot that expressly focused on using socioeconomic status (SES) as a tool for increasing racial and ethnic diversity. The purpose of the Socioeconomic Integration Pilot Program is to increase student achievement in Priority and Focus Schools by encouraging greater socioeconomic integration in these schools. Following a planning period, the funded schools are expected to develop and implement programs that improve the achievement of low-SES students and attract higher-SES students, including students from other school districts based on interdistrict choice agreement, to voluntarily enroll in the Focus or Priority School. Among the suggested program designs are science, technology, engineering, and math (STEM) programs that include a summer residential experience of no less than one full week at a postsecondary institution; dual-language programs designed to meet the needs and languages of ELLs living in proximity to the school; the School-wide Enrichment Model (Renzulli); career programs based in whole or part at local institutes of higher education (IHEs); themes such as the arts, which include the visual arts, dance, music, theater, public speaking, and drama; and Montessori. While these pilots represent a promising step in the direction of promoting greater diversity in NYC and across the state, the initiative’s impact is decidedly limited, given the very small number of grants and the limited funding that accompanies them.

In addition to the communities that are implementing the pilots (none of which are in the D27-29 community targeted for this MSAP funding), there are other grass-roots efforts taking hold in several NYC community school districts to help attract a more diverse population of students than is currently attending the schools. It is important to point out that in several of these efforts the impetus for modifying admissions policies is resulting from gentrification trends, which have caused tensions within communities as families struggle to find seats in overselected schools.
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The proposed D27-29 magnet schools are located in four neighborhoods in the NYC borough of Queens. The three proposed magnet schools in D27 are located in Richmond Hill (PS 62 and PS 254) and Ozone Park (PS 316). The Richmond Hill/Ozone Park neighborhoods cover a small, 3.2-square-mile area that is home to a very diverse population. About 40% of the residents are Hispanic, 26% are Asian, 19% are White, and 10% are African American. Half (51%) are foreign-born, including large Sikh, Southeast Asian, and Caribbean communities. Despite the neighborhood’s racial and ethnic diversity, each of the proposed magnet schools experiences MGI. PS 254 and PS 316 have MGI among Hispanic students (74.6% and 50%, respectively); PS 62 has MGI among Asian students (60.5%).

The proposed magnet schools in neighboring D29 serve a very different population. The two schools, PS 52 and PS 195, are located in the adjacent Rosedale and Springfield Gardens areas, respectively. These neighborhoods are in the southeastern section of Queens near John F. Kennedy airport. Both neighborhoods have large African American populations: in Rosedale, 56% of residents are African American, 13% are White, 12% are Hispanic, and 17% are Asian. Similarly, in Springfield Gardens, the population is 67% African American, 2% White, 17% Hispanic, and 11% Asian. However, the proportion of African American students in both proposed magnet schools is much higher—86.1% in PS 52 and 92.5% in PS 195—thus making them minority group isolated.

According to data from the 2013–14 Private Schools Universe Survey, the nonpublic schools located in the same zip codes as the D27 and D29 magnet schools serve about 3,400 grade K–6 students. Almost a quarter (20.4%) of these students are White (a significantly higher percentage than in either of the proposed magnet schools), 27.4% are Hispanic, 21.7% are African American, and 15.9% are Asian. Additionally, in 2015, 93 students who were zoned to attend
either PS 62 or PS 254 in D27 chose to attend a school out of district or a charter school. Among these students, 32% represented students of ethnicities other than Hispanic (the group that experiences MGI in the schools). Similarly, 69 students zoned for PS 62 chose to attend an out-of-district school, including 45% of students from races other than Asian (the group that experiences MGI in the school). Lastly, in the D29 schools, 243 students zoned for either PS 52 or PS 195 chose to attend an out-of-district school, including 13% of students from races other than African American (the group that experiences MGI in these two schools). By developing new and attractive magnet programs, the schools will be able to attract a more diverse population of students who are attending nonpublic, charter, or out-of-district schools in close proximity to the proposed magnet schools.

Once the districts and target communities were identified, in keeping with New York City Chancellor Carmen Fariña’s goal for schools to become more integrated, the NYCDOE’s planning team reached out to the Community Superintendents to secure their interest in pursuing the grant and their commitment to the goals of the MSAP, including its desegregation mandate. The Superintendents’ in-depth knowledge of the communities and the schools was critical in identifying candidate schools for the grant. The candidate schools in D27-29 were then invited to an awareness session at which the goals, requirements, and expectations of the MSAP grant were spelled out. Principals who were interested in participating in the D27-29 grant were then asked to submit a letter of intent to the NYCDOE. All five Principals in the D27-29 grant application embraced the opportunity to use MSAP as a critical lever in helping to further their educational missions and to support the effort to promote greater diversity within the school communities. As a final step, the Superintendents codified their support for the MSAP initiative by signing both the Program Assurances and the memorandum of agreement with the NYCDOE regarding the
amended Voluntary Desegregation Plan (see Desegregation Plan and supplementary documentation in Required Attachments).

The D27-29 magnet initiative will convert five schools into whole-school, theme-based magnets. As described in the Quality of Design section, the process for identifying the magnet themes was a collaborative effort within the school communities, with support and guidance provided by the NYCDOE magnet team, a group of seasoned educators and MSAP leaders that has collectively worked with over 100 elementary, middle, and high school magnets throughout the five boroughs of New York City. Emanating from this collaborative and comprehensive planning process, the plans outlined in Table 1 have been launched and will be brought to fruition should an MSAP grant be forthcoming.

Table 1. D27-29 Magnet School Programs

<table>
<thead>
<tr>
<th>District</th>
<th>School</th>
<th>Theme</th>
<th>Grades Served</th>
<th>Enrollment</th>
</tr>
</thead>
<tbody>
<tr>
<td>27</td>
<td>PS 62</td>
<td>Computer Science and Innovation</td>
<td>Pre-K–5</td>
<td>951</td>
</tr>
<tr>
<td>27</td>
<td>PS 254</td>
<td>Leadership Development and the Arts</td>
<td>Pre-K–5</td>
<td>676</td>
</tr>
<tr>
<td>27</td>
<td>PS 316</td>
<td>Global Conservation and Service Learning</td>
<td>Pre-K–5</td>
<td>358</td>
</tr>
<tr>
<td>29</td>
<td>PS 52</td>
<td>Innovation, Exploration, and Engineering</td>
<td>Pre-K–5</td>
<td>511</td>
</tr>
<tr>
<td>29</td>
<td>PS 195</td>
<td>Multimedia Arts and STEM</td>
<td>Pre-K–5</td>
<td>617</td>
</tr>
</tbody>
</table>

(1) The Secretary determines the extent to which the applicant demonstrates the
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effectiveness of its plan to recruit students from different social, economic, ethnic, and racial backgrounds into the magnet schools.

One of the best ways to attract a more diverse population of students to the magnet schools is by developing effective and targeted outreach and recruitment strategies. Research suggests that districts should use a comprehensive approach to outreach that includes information centers, direct mailing of literature in multiple languages, and advertisements in a variety of media outlets (Frankenberg & Siegel-Hawley, 2008). Furthermore, when outreach is effective, magnet school choice programs have been successful in achieving greater levels of integration by race/ethnicity as well as level of parental education (Betts, Rice, Zau, Tang, & Koedel, 2006). District 27-29 has developed a multifaceted approach to outreach and recruitment that will include the strategic use of district- and school-level resources to share information about the magnet programs with a diverse group of families and community members through print materials, Web-based and virtual promotion, in-person events, and effective word-of-mouth marketing.

Outreach and recruitment will be a joint responsibility of the MSAP Project Director, the Community Outreach and Technology Specialist, and the individual magnet schools. The Project Director will work closely with each school to develop and implement targeted and aggressive outreach and recruitment strategies that reflect the unique characteristics of the community. The Community Outreach and Technology Specialist will develop and disseminate district-based promotional materials (e.g., brochures, videos, fact sheets), establish contacts within the local community and the Community Education Council (CEC), oversee the development of a D27-29 magnet program website, and submit information to local media for the promotion of magnet schools’ activities. The Community Outreach and Technology Specialist will also work hand in
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hand with the school-based magnet staff to develop a robust set of marketing materials and activities to promote their individual magnet programs. Without such targeted outreach, the chances of successfully meeting the desegregation goals that are outlined in the project performance measures would be negligible.

District 27-29’s plan to recruit students from different social, economic, ethnic, and racial backgrounds includes the attraction of parents and students from targeted feeder schools and nonpublic schools or schools outside the communities back into the D27-29 public school system. District 27-29 ensures that its recruitment and outreach for the magnet project will be sensitive and responsive to its diverse constituents and will be fully aligned with MSAP statute and the guidance of the Office for Civil Rights on the voluntary use of race.

A projected timeline of these activities is presented in Table 2.

Table 2. D27-29 Annual Marketing Timeline

<table>
<thead>
<tr>
<th>Month(s)</th>
<th>Activity</th>
<th>Responsibility Center</th>
</tr>
</thead>
<tbody>
<tr>
<td>October–December</td>
<td>Conduct magnet information sessions, events and open houses; conduct outreach to feeder schools, preschools, libraries, and relevant community/cultural organizations; attend District Choice Fairs; disseminate marketing materials; conduct outreach to local media (traditional and online); maintain active presence on social media (Facebook, Twitter)</td>
<td>Project Director, Magnet Site Coordinators, Outreach and Tech Coordinator</td>
</tr>
<tr>
<td>Early</td>
<td>Application period begins; parents submit</td>
<td>Magnet Site Coordinators,</td>
</tr>
</tbody>
</table>
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<table>
<thead>
<tr>
<th>Month(s)</th>
<th>Activity</th>
<th>Responsibility Center</th>
</tr>
</thead>
<tbody>
<tr>
<td>December</td>
<td>applications</td>
<td>Principals, and school-based staff</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Magnet Site Coordinators, Outreach and Tech Coordinator, Principals</td>
</tr>
<tr>
<td>Mid-December –February</td>
<td>Parents continue to submit applications; continue to conduct outreach efforts, dissemination of marketing materials, school tours, social media posts, and marketing to local media (traditional and online)</td>
<td>Project Director, Outreach and Tech Coordinator</td>
</tr>
<tr>
<td>March</td>
<td>Placement offers distributed</td>
<td>District, NYCDOE</td>
</tr>
<tr>
<td>March–April</td>
<td>Continued outreach as necessary, pending available seats</td>
<td>Magnet Schools</td>
</tr>
<tr>
<td>April</td>
<td>Preregistration process begins as parents accept offers</td>
<td>Magnet Schools</td>
</tr>
<tr>
<td>May–August</td>
<td>Late applications accepted; late offers made; continued outreach as necessary, pending available seats</td>
<td>Magnet Schools</td>
</tr>
</tbody>
</table>

School-based recruitment for the magnet schools will be especially important because the students, teachers, administrators, and parents are the individuals who best know the schools and can best advertise them. The Magnet Site Coordinator at each school will develop a school-based marketing and outreach plan to build on the activities and strategies that are conducted by the district. Targeted marketing will focus on D27-29 families choosing private school options,
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community service agencies, faith-based organizations, and private daycares and preschools. Open Houses and showcases of student learning will be conducted for the families and community members; paper and electronic informational flyers and brochures will be shared with families in neighboring feeder schools (including daycares and preschools for the five elementary schools); and presentations will be made by magnet staff and students at feeder schools and community events such as block parties and fairs. Furthermore, each school will develop a magnet page on the school’s website to highlight student and teacher achievements in the magnet program and to share information about the magnet theme and related family resources. The schools will also develop magnet program Facebook pages and Twitter accounts to share information with families in real time.

Key strategies in reaching a diverse population of families will be the development of strong community partnerships and dissemination of information to prospective families at community-based locations, such as libraries, faith-based organizations, youth centers, play gyms, and recreational facilities, as well as through local governmental offices. In their efforts to disseminate information to “hard-to-reach” parents and families, the Magnet Site Coordinators will receive support from the Borough and District Family Advocates in both districts. These staff members work closely with the school communities, including families, School Leadership Teams (SLTs), and Parent Associations (PAs)/Parent-Teacher Associations (PTAs). Additionally, each school will work with district staff and the NYCDOE Translation Unit to ensure that they have access to resources to provide verbal and written information about the programs with native speakers of languages other than English. Each school will also work to recruit native speakers of languages other than English from their staff, parent, and local
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communities to interact directly with parents so that they feel welcome in the school buildings and understand the information that is shared.

The school-specific outreach and recruitment efforts that will be carried out by the magnet schools are outlined in Table 3.
### Table 3. School-Based Outreach and Recruitment Strategies

| PS 52                      | ▪ Distribution of informational flyers and brochures to local residents and businesses, including daycare providers  
|                           | ▪ Outreach to schools in neighboring communities in Southeast Queens, including preschools, daycare providers, nonpublic schools, and charter schools  
|                           | ▪ Outreach to local representatives and requests that program information be included in newsletters and e-mail blasts  |
| PS 62                      | ▪ Advertising on school website and social media outreach on Facebook and Twitter  
|                           | ▪ Advertising in local publications, including the *Forest Hills Chronicle*, and outreach to local businesses in Forest Hills, Howard Beach, and Jamaica, including Forest Hills Garden Community Center and North Hills Library  |
| PS 195                     | ▪ Advertising in local newspapers (e.g., *Queens Chronicle, Queens Tribune, Times Ledger, Queens Gazette, Newsday*)  
|                           | ▪ Outreach to daycare centers, preschools, nonpublic schools, and charter schools in targeted neighborhoods of Hollis, Jamaica, and Queens Village  |
| PS 254                     | ▪ Advertising in local newspapers (e.g., *The Forum News Group, Queens Tribune, Queens Chronicle*) and local television station New York 1  
|                           | ▪ Outreach to daycare centers, preschools, nonpublic schools, and charter schools in targeted neighborhoods of Ozone Park, Richmond Hill, Woodhaven  |
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- Distribution of informational flyers, brochures, and pamphlets
- Advertising in local newspapers (e.g., Queens Chronicle, Queens Gazette, Queens Tribune) and television stations (e.g., New York 1)
- Outreach to local schools and daycare centers (e.g., PS 33 and Greater Ridgewood Child Care Center) and local businesses (e.g., USA Martial Arts Academy and Khan’s Tutoring)

(2) The Secretary determines the extent to which the applicant demonstrates how it will foster interaction among students of different social, economic, ethnic, and racial backgrounds in classroom activities, extracurricular activities, or other activities in the magnet schools.

The District’s aggressive outreach and recruitment plan, in concert with an equitable, efficient, and race-neutral student selection process (described in the Selection of Students Competitive Preference Priority 3, Table 5 in Desegregation Plan attachment), will ensure that the D27-29 magnet schools attract and enroll an increasingly diverse population of students and families over the three-year project. However, there is ample evidence to suggest that attracting a diverse student body does not in and of itself guarantee that students of different backgrounds, once enrolled in magnet schools, will develop positive interactions in the absence of educational and structural strategies known to foster positive intergroup relationships and to support all learners to succeed in the magnet program (Bifulco, Buerger, & Cobb, 2012). Some important strategies identified in the literature for promoting positive interactions between students and teachers and among students include implementing a culturally responsive pedagogy and providing opportunities for student-centered, project-based learning experiences.
Cultural competence refers to the ability to effectively understand, communicate with, and interact with people of different cultures and involves awareness of one’s own cultural worldview, attitude toward cultural differences, knowledge of different cultural practices and worldviews, and cross-cultural skills (Ben-Ari & Strier, 2010). Culturally responsive teaching requires awareness of the cultural differences of students and an adjustment in teacher attitude (Colbert, 2010). Suggested strategies for developing cultural competencies in the classroom include building relationships with students and parents, listening empathetically, looking for cultural interpreters in the school or community, and using available resources such as books, articles, files, and audio files (Pratt-Johnson, 2006).

To support the D27-29 schools in providing culturally responsive instruction, Brown University’s Education Alliance will provide the schools with programmatic services designed to improve instruction, assessments of school climate and culture to increase student engagement, and collaborative inquiry research to build communities of practice. These services will be focused on three major areas: culturally responsive systems, families and communities, and ELLs. Additional information about this training is provided in the Quality of Project Design section.

Another key strategy for fostering interactions among students is creating learner-centered environments in which all students take control of their own learning while the teacher guides and facilitates the process (Devaney, 2011). This approach supports students from a diversity of backgrounds and ability groups by modeling teaching practices to meet individual needs rather than forcing student learning to conform to a rigid set of instructional practices.

Within the learner-centered environment, a focus on project-based learning (PBL)—in which students learn through research and applied learning—is additionally important in
encouraging the development of higher-order thinking skills beyond those used in a typical learning environment as “students learn to work independently and take responsibility when they are asked to make choices. The opportunity to make choices, and to express their learning in their own voice, also helps to increase students’ educational engagement” (Buck Institute for Education, n.d.). Cooperative work and team learning have a strong and consistent positive effect on relationships between culturally diverse students (Colbert, 2010). A 2012 study, for example, found that students who had higher-quality interactions with peers from other racial groups reported having more positive academic environments and more positive attitudes toward other groups (Bifulco et al., 2012). As described in the Quality of Project Design section, magnet partners Big Idea Week (BIW), OMNiLEARN, and the Buck Institute for Education (BIE) will support the five schools in their efforts to integrate PBL opportunities into instruction by providing immersive learning experiences, staff training, resources, and expertise.

(3) The Secretary determines the extent to which the applicant demonstrates how it will ensure equal access and treatment from eligible project participants who have been traditionally underrepresented in course or activities offered as part of the magnet school, e.g., women and girls in mathematics, science, or technology courses, and disabled students.

New York City Department of Education’s Policy on Equal Access

It is the policy of the NYCDOE to provide educational opportunities without regard to race, color, religion, creed, ethnicity/national origin, alienage and citizenship status, age, marital status, disability, sexual orientation, and gender (sex), and to maintain an environment free of unlawful harassment, including sexual harassment, and retaliation. This policy is in accordance with Title VI and Title VII of the Civil Rights Act of 1964, as amended; Title IX of the
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Education Amendments of 1972; Section 503 and Section 504 of the Rehabilitation Act of 1973, as amended; the Americans with Disabilities Act of 1990, as amended; the Civil Rights Act of 1991; and the New York State and New York City Human Rights Laws.

District 27-29’s Policies to Ensure Equal Access and Treatment

District 27-29 adheres unconditionally to the nondiscrimination practices of the New York State (NYS) and NYC Departments of Education and ensures equal access and treatment for all of its students in all curricular and extracurricular programs. The policies to ensure equal access and treatment are also fully aligned with guidance provided by the U.S. Department of Education (USDOE) Office for Civil Rights on the voluntary use of race to achieve diversity and avoid racial isolation in elementary and secondary schools (U.S. Department of Education Office for Civil Rights and U.S. Department of Justice, 2011).

The D27-29 magnet schools will be whole-school programs that provide all students with opportunities to participate in rigorous, theme-based instruction and enrichment activities. As described in Table 5: Selection of Students—Competitive Preference Priority 3 (included with the Desegregation Plan attached), the NYCDOE will use a race-neutral student selection process to enroll new students at the magnet schools. District 27-29 ensures that all communications with parents and community members about the magnet program and activities will be provided in multiple languages to reach a diverse population. Furthermore, participation in magnet activities will not require financial contributions from students or their families.

District 27-29 also believes that the District and schools must take a proactive role in providing adequate supports and resources to ensure that all students can attain high levels of achievement, including those who have traditionally been underrepresented in courses or activities that will be offered as part of the magnet school programs. An essential component to
ensuring equal access and treatment is setting high standards that all students are expected to meet, regardless of their gender, racial, or ethnic background; educational needs; or income level. It is recognized, however, that some students have greater difficulty in meeting these standards when they are confronted by certain academic, social, or emotional challenges.

This section describes some of the major efforts the proposed magnet schools are making to ensure equal access and treatment. These efforts demonstrate that District 27-29 is in full compliance with Section 427 of the U.S. Department of Education’s General Education Provisions Act (GEPA). This proactive approach to ensuring equitable access to and participation in the magnet schools initiative provides additional support for students with special learning needs, including ELLs, students with disabilities, and struggling learners, and offers guidance support for all students.

As detailed in the response to Competitive Priority 4—Promoting STEM Education, the NYCDOE has launched a citywide initiative to assist all schools in adapting its newly minted STEM Framework. All five schools in the D27-29 magnet initiative will be implementing content-based themes and instructional approaches in alignment with this STEM Framework to ensure that all students, including females and students of color, have access to these critical learning experiences.

Support for All Students in Science, Technology, Engineering, and Math Courses

Underrepresentation of girls and racial and ethnic minority groups in STEM fields and courses of study is well documented by research (Chen & Thomas, 2009). At the same time, literature highlights the advantages to pursuing these fields, both in terms of employability and future earnings, as well as the cognitive benefits that STEM brings to all aspects of education (Malcolm & Webster, 2014; Reed & Berry, 2006). For these reasons, strategies that support
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participation among all groups of students, including both those who are traditionally underrepresented in STEM and groups who participate more frequently, is of utmost importance to providing equitable access and opportunities. Research and literature have highlighted effective strategies for promoting participation in STEM among all groups: community outreach and recruitment for STEM experiences; use of collaborative learning opportunities, hands-on learning experiences, and differentiation of instruction; and employing strategies actively designed to negate stereotypes, such as inclusive examples and including instructors from a diversity of backgrounds.

Support for Students With Special Learning Needs

D27-29 is committed to meeting the varied educational needs of its student population, including ELLs and students with disabilities.

Services for ELLs. In NYC, transitional bilingual education (TBE) programs include language arts and subject matter instruction in the students’ native language and English as well as intensive instruction in English as a second language. As the student develops English proficiency using the strengthened knowledge and academic skills acquired in the native language, instruction in English increases and native language instruction decreases. Dual-language programs provide half of the instruction in English and half in the native language of the ELLs in the program (e.g., Spanish, Chinese, Haitian Creole). Students of the native language are taught alongside English-speaking students so that all students become bilingual and fluent in both languages. Freestanding English as a second language (ESL) programs provide all language arts and subject matter instruction in English through the use of specific instructional strategies. The NYCDOE’s Office of English Language Learners and Student Support (OELLSS), through its Field Support Liaisons, provides extensive professional development.
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(PD) opportunities for school staff in these models and other evidence-based services for ELL students. For example, the NYCDOE OELLSS has a partnership with Understanding Language at Stanford University that focuses on six key principles for ELL instruction. Understanding Language aims to heighten educator awareness of the critical role that language plays in the new Common Core State Standards (CCLS) and Next Generation Science Standards (NGSS). The long-term goal of the initiative is to increase recognition that learning the language of each academic discipline is essential to learning content.

All NYC schools are required to hold orientations for parents or guardians of newly enrolled ELLs to inform them of the different ELL programs that are available. Support in the native language may be available. In orientations, parents have the opportunity to receive materials about ELL programs in their home language and to ask questions about ELL services (with assistance from a translator, if necessary). At the end of each orientation, school staff collect the Parent Survey and Program Selection Form, which indicates the program that parents are requesting for their child.

The proposed D27-29 magnet schools currently serve ELL populations ranging from 1.6% at PS 195 to 15.9% at PS 62. The schools are dedicated to meeting the unique needs of their ELL students. Through their school-based inquiry teams, ELL students are targeted for in-class and extended-day interventions and supports. Additional ELL programs and services provided at the schools are listed in Table 4.

Table 4. Percentage of ELL Students and Programs/Services Available to Serve These Students’ Needs in the Proposed Magnet Schools (2015–16)
## Magnet Schools Assistance Program (2016–2019)

### Community School Districts 27 and 29—Queens, New York

<table>
<thead>
<tr>
<th>Schools</th>
<th>% ELLs</th>
<th>Programs and Services to Meet Needs of ELLs</th>
</tr>
</thead>
<tbody>
<tr>
<td>PS 62</td>
<td>15.9%</td>
<td>At PS 62, ELLs are strategically grouped in classes and teachers use research-based strategies to scaffold learning material for ELL students.</td>
</tr>
<tr>
<td>PS 254</td>
<td>10.4%</td>
<td>ELL students at PS 254 receive English instruction that uses intensive ESL methodology to address higher-order thinking, questioning, and discussion. ESL students also participate in Academic Intervention Services (AIS) small group instruction.</td>
</tr>
<tr>
<td>PS 316</td>
<td>5.1%</td>
<td>PS 316 employs a multipronged approach to support ELL students that includes targeted group instruction by ESL-certified teachers, monthly PD for ESL teachers, and workshops for parents of ELL students to engage them in their child’s learning. ELL students will also be supported by the school’s Children Are Reason Enough (CARE) team, which provides each student with an individual action plan and a case manager to promote social-emotional health.</td>
</tr>
<tr>
<td>PS 52</td>
<td>4.5%</td>
<td>PS 52 employs a multipronged approach to support ELL students that includes targeted group instruction by ESL certified teachers, monthly PD for ESL teachers, and family events and workshops for parents of ELLs to engage them in their child’s learning.</td>
</tr>
<tr>
<td>PS 195</td>
<td>1.6%</td>
<td>At PS 195, ELL students receive instruction from a certified ESL</td>
</tr>
</tbody>
</table>

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Magnet Schools Assistance Program (2016–2019)

Community School Districts 27 and 29—Queens, New York

<table>
<thead>
<tr>
<th>Schools</th>
<th>% ELLs</th>
<th>Programs and Services to Meet Needs of ELLs</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>teacher through push-in/pull-out services. Teachers receive regular PD, with a focus on understanding math content and pedagogy.</td>
</tr>
</tbody>
</table>

Services for Students With Disabilities. Under the leadership of the Deputy Chancellor for Specialized Instruction and Student Services, the NYCDOE is making significant improvements in the way it delivers services to students with disabilities. Through the citywide, multiphase initiative *A Shared Path to Success*, students with disabilities entering kindergarten, sixth grade, or ninth grade are able to attend the same schools they would attend if they did not have an Individualized Education Program (IEP), whether that is their local community school or a school of their choice. As a result, all students with IEPs are provided with the greatest possible access to the least restrictive environment appropriate to their needs. The goal of *A Shared Path to Success* is to prepare all students to graduate from high school fully prepared for college, careers, and independent living. In order to further bolster support for these efforts to increase opportunities for students with IEPs to learn alongside their peers, NYCDOE provides extensive PD for general education and special education teachers and school staff to promote an inclusive school culture.

In D27-29, students with disabilities are eligible for the full continuum of special education services, including instruction in self-contained (12:1:1) classes; Special Education Teacher Support Services (SETSS) push-in services; Integrated Co-Teaching (ICT) classes and other models of inclusion; and other related services, including speech and language services,
counseling, and adaptive physical education. The proportion of students with disabilities at the magnet schools ranges from 5.9% at PS 316 to 19.3% at PS 52. As shown in Table 5, the proposed magnet schools are dedicated to meeting the needs of students with disabilities through various targeted programs.

Table 5. Percentage of Students With Disabilities and Programs/Services Available to Serve These Students’ Needs in the Proposed Magnet Schools (2015–16)

<table>
<thead>
<tr>
<th>Schools</th>
<th>% Students With Disabilities</th>
<th>Programs and Services to Meet Special Education Students’ Needs</th>
</tr>
</thead>
<tbody>
<tr>
<td>PS 62</td>
<td>9.4%</td>
<td>At PS 62, students with disabilities are supported by two self-contained classes, five ICT classes, and providers for speech and SETSS that work with students outside the classroom. Teachers use research-based strategies to scaffold learning material for students with disabilities and meet monthly to discuss effective classroom strategies. Parents are invited to participate in specialized monthly workshops.</td>
</tr>
<tr>
<td>PS 254</td>
<td>12.2%</td>
<td>At PS 254, the Special Education IEP teacher supports the special education programming by coordinating teacher PD and assisting with IEP mandates, adaptive strategies, best approach methodology, data analysis, comprehensive needs assessment, and program design. Students with disabilities receive AIS small group instruction and SETSS.</td>
</tr>
</tbody>
</table>
Magnet Schools Assistance Program (2016–2019)
Community School Districts 27 and 29—Queens, New York

<table>
<thead>
<tr>
<th>Schools</th>
<th>% Students With Disabilities</th>
<th>Programs and Services to Meet Special Education Students’ Needs</th>
</tr>
</thead>
<tbody>
<tr>
<td>PS 316</td>
<td>5.9%</td>
<td>In addition to special education services, students with disabilities at PS 316 are supported by the school’s Children Are Reason Enough (CARE) team, which provides each student with an individual action plan and a case manager to promote social-emotional health. Students with disabilities are also targeted by the schoolwide guidance program, which promotes one-to-one and small group learning.</td>
</tr>
<tr>
<td>PS 52</td>
<td>19.3%</td>
<td>At PS 52, students with disabilities receive special education services. There are also family events and workshops that address these students’ needs.</td>
</tr>
<tr>
<td>PS 195</td>
<td>15.7%</td>
<td>Students with disabilities at PS 195 receive special education services. Teachers receive regular PD, with a focus on understanding math content and pedagogy.</td>
</tr>
</tbody>
</table>

**Academic Supports for Struggling Learners.** In its commitment to raising achievement for all of its students, D27-29 devotes extensive resources to support the achievement of students performing below state learning standards and students who are at risk of not graduating. Several of the proposed magnet schools offer before-school, after-school, and weekend instructional programs to enable students who are struggling academically to get additional support in smaller
and more focused learning groups. For example, PS 195 uses Wilson, Raz-kids, and Imagine Learning online programs to support struggling students.

**Guidance Services.** In the event that “high-risk” students are identified, District 27-29 implements several potential intervention approaches to meet their needs, including individual, group, and peer counseling. The goal of these services is to develop students’ social and decision-making abilities and establish positive relationships by providing opportunities for them to bond with peers, counselors, parents, school personnel, and the community. Special counseling services are given to Title I–eligible students to support their success in the regular classroom environment. Title I also provides outreach services to families and planning and intervention through the use of pupil personnel committees to support eligible students.

Finally, several schools are implementing the Positive Behavior Interventions and Supports (PBIS) RTI program, which applies a three-tiered system of support (universal, secondary, and tertiary interventions) and a problem-solving process to enhance schools’ capacity to effectively instruct all students. School-based behavior specialists provide students with assistance and behavior management, crisis intervention, and other related resources.

All the aforementioned supports for students with special learning needs will ensure that all students at the proposed magnet schools will have equal access to the same rigorous instructional programs and enrichment and extracurricular activities.

(4) The Secretary determines the extent to which the applicant demonstrates the effectiveness of all other desegregation strategies proposed by the applicant for the elimination, reduction, or prevention of minority group isolation in elementary schools and secondary schools with substantial proportions of minority students.

In addition to pursuing MSAP funding, as noted at the beginning of this section, among the
Magnet Schools Assistance Program (2016–2019)

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efforts the NYCDOE is implementing to address the intransigent issue of minority group and SES isolation is the NYS-funded Socioeconomic Integration Pilot. As these programs transition from the planning to implementation phase, the D27-29 magnet community will look eagerly to lessons learned and success stories, both at the city and state levels.

Dual-language programs have been used as a desegregation strategy in school districts across the country, and it is for this as well as other educational reasons that the NYC Schools Chancellor is promoting this initiative in New York City. Dual-language immersion (DLI) is an instructional model that integrates native English speakers and native speakers of another language to provide instruction in core subjects to both groups of students in both languages (Howard, Sugarman, & Christian, 2003). The DLI model has gained popularity over the past 15 years, largely due to the growth in non-native English-speaking students in the U.S. public education system, as well as findings from academic studies about the positive impacts of DLI on increasing student academic achievement and promoting linguistic and cultural equity (Alvear, 2015; Sugarman, 2012). For example, extensive research conducted by George Mason University Professors Wayne Thomas and Virginia Collier has highlighted the academic and social benefits of DLI, including implementation of high-quality language arts instruction, support for positive interdependence among students of different cultures, and active school-family partnerships (Thomas & Collier, 2002). Research also indicates that the DLI model has been effective in meeting the academic and language needs of all students and providing equitable educational opportunities that do not emphasize instruction in one language group over another (Grayson, 2012).

The NYCDOE created citywide gifted and talented programs for elementary school students in 2005, providing accelerated and rigorous instruction for students with exceptional learning
Magnet Schools Assistance Program (2016–2019)

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potential. Students fill out applications and take admissions tests starting in pre-K, for entering programs as early as kindergarten. Research conducted by New York University found significant disparities between the demographics of students attending these elementary programs and those in nongifted programs. For example, as of 2011, roughly 70% of NYC public school students were Black and Hispanic, while more than 70% of kindergarteners in NYC gifted and talented programs were White or Asian (Lu & Weinberg, 2016).

Significant controversy surrounds the lack of diversity in New York City’s specialized high schools, considered the most selective and academically rigorous in the city. Overall, this past year, nearly 27,000 students took the specialized high school exam, and 19% of all test takers were accepted into one of the schools. Just over 3% of African American students and just over 5% of Hispanic students who applied to these high schools were accepted. By comparison, 34% of Asian students and 29% of White students received a seat (Shapiro, 2016).

In an effort to diversify gifted and talented programs and make access to these programs more equitable, the NYCDOE announced that it will be implementing a pilot program that will use multiple measures to identify eligible program students. Students interested in these programs will not be required to take the screening exams (the Otis-Lennon School Ability Test [OLSAT] and the Bracken School Readiness Assessment [BSRA]). Rather, if a family expresses interest in the program, teachers will complete a checklist and questionnaire that evaluates whether the student is performing above grade level. This selection process will include teacher evaluations of students on a variety of measures, including demonstrated academic performance, attendance, and gifted behavior indicators such as being highly curious, motivated, and a fast learner (Zimmer, 2016; Zimmerman, 2016). Families in these districts will be able to apply to the new third-grade programs in May 2016. Families interested in the citywide gifted programs will
still require a score of 97 or above on the screening exams.

(B) Quality of Project Design (35 points)

The Secretary reviews each application to determine the quality of the project design.

(1) The Secretary considers the manner and extent to which each magnet school program will improve student academic achievement for all students attending each magnet school program, including the manner and extent to which each magnet school will increase student academic achievement in the instructional area or areas offered by the school.

In January 2014, the newly appointed Chancellor of the NYC public schools, Carmen Fariña, unveiled her vision for the NYCDOE, which highlighted three themes: collaboration, communication, and celebration. Fariña deemed these themes essential to providing quality instruction, promoting professional growth, and, most important, enabling students to achieve academic success. Furthermore, Chancellor Fariña set forth four pillars that would serve as the road map for the DOE during her tenure: (1) Return dignity and respect to the teaching profession; (2) Improve student achievement by aligning all instruction to the Common Core standards; (3) Engage parents in every aspect of school life; and (4) Create new collaborative and innovative models within our city and schools. These themes and pillars were then codified in The Framework for Great Schools, with the following six elements:

- Rigorous Instruction: Instruction is customized, inclusive, motivating, and aligned to the Common Core. High standards are set in every classroom. Students are actively engaged in ambitious intellectual activity and developing critical thinking skills.
- Supportive Environment: The school establishes a classroom and school culture where students feel safe, supported, and challenged by their teachers and peers.
Collaborative Teachers: Teachers are committed to the success and improvement of their classrooms and schools. They have the opportunity to participate in PD within a culture of respect and continuous improvement.

Effective School Leadership: Principals lead by example and nurture the professional growth of teachers and staff, developing and delivering the instructional and social-emotional support that drives student achievement.

Strong Family-Community Ties: School leadership brings resources from the community into the school building by welcoming, encouraging, and developing partnerships with families, businesses, and community-based organizations (CBOs).

Trust: Everyone works toward the shared goal of improving student outcomes, preparing students for success in school and beyond. Across the school community, there is respect. School staff, parents, students, and administrators value each other.

Pillars of D27-29 Magnet Program Design

The D27-29 magnet initiative has been designed so that it is fully aligned with and supportive of the six elements of NYCDOE’s Framework for Great Schools. Implementation of these methodologies will serve to bring the curricula to life in and beyond the walls of the classrooms, helping students to see and make connections across subject areas and apply what they are learning to solve real-world problems in their schools, communities, and the world at large. The goal is for these approaches to be implemented schoolwide, and with all populations of students, by the end of the three-year project period. The D27-29 magnet schools will adhere to these pillars, as described in the following.

Rigorous Instruction
Community School Districts 27 and 29—Queens, New York

As stated in its core values, “NYCDOE is committed to doing whatever it takes to ensure that every student learns and succeeds, regardless of race, ethnicity, gender, and socioeconomic status.” Yet, many students struggle to meet grade-level standards as measured by state assessments. Furthermore, with the transition to CCLS, students are expected to meet increasingly challenging benchmarks in order to prepare them for college and careers. As a result, we are finding that the proportion of students who meet the standards in ELA and math, as measured on the NYS assessments is low. Furthermore, our data show that there are significant achievement gaps for students by racial and ethnic background, eligibility for free- or reduced price lunch, and students with special needs, namely students with disabilities and ELLs.

In the proposed D27 schools, 30.0% of students in grades 3–5 at PS 62 and 40.7% at PS 254 met or exceeded the ELA standards in 2015. Math achievement was slightly higher, but still uneven—37.3% at PS 62 and 67.3% at PS 254. Across the district, the levels were 29.5% for ELA and 40.3% for math. Achievement was even lower in the D29 proposed magnet schools. At PS 52, 24.5% of students met or exceeded the ELA standards in 2015, and at PS 195, only 21.1% did. These proportions are substantially lower than the district average (69.0%). The same was true for math—18.8% of students at PS 52 and 13.6% at PS 195 met or exceeded the math standards in 2015, compared with 33.0% across the district. Results of the 2014–15 NYS assessments are presented in Tables 6 and 7. In each table, data are not presented when the number of students in a subgroup is less than 10.

**Table 6. Percentage of Students who Met/Exceeded Standard on NYS Assessment in ELA and Math (District 27)**

<table>
<thead>
<tr>
<th>Subgroup</th>
<th>ELA Percentage</th>
<th>Math Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>PS 62</td>
<td>37.3%</td>
<td>67.3%</td>
</tr>
<tr>
<td>PS 254</td>
<td>29.5%</td>
<td>40.3%</td>
</tr>
<tr>
<td>PS 52</td>
<td>24.5%</td>
<td>18.8%</td>
</tr>
<tr>
<td>PS 195</td>
<td>21.1%</td>
<td>13.6%</td>
</tr>
</tbody>
</table>
## Magnet Schools Assistance Program (2016–2019)

Community School Districts 27 and 29—Queens, New York

<table>
<thead>
<tr>
<th>Student Group</th>
<th>PS 62 Grades 3–5</th>
<th>PS 254 Grades 3–5</th>
<th>D27 Grades 3–5</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ELA  N=430</td>
<td>ELA  N=270</td>
<td>ELA  N=10,200</td>
</tr>
<tr>
<td></td>
<td>Math N=440</td>
<td>Math N=269</td>
<td>Math N=10,323</td>
</tr>
<tr>
<td>All students</td>
<td>30.0% 37.3%</td>
<td>40.7% 67.3%</td>
<td>29.5% 40.3%</td>
</tr>
<tr>
<td>Asian</td>
<td>33.5% 44.3%</td>
<td>50.0% 80.0%</td>
<td>41.9% 56.8%</td>
</tr>
<tr>
<td>American Indian/Alaska Native</td>
<td></td>
<td>27.4%</td>
<td>41.4%</td>
</tr>
<tr>
<td>Black/African American</td>
<td></td>
<td>55.0%</td>
<td>17.5% 21.6%</td>
</tr>
<tr>
<td>Hispanic/Latino</td>
<td>22.3% 20.9%</td>
<td>37.1% 66.5%</td>
<td>24.8% 36.6%</td>
</tr>
<tr>
<td>White</td>
<td></td>
<td>62.5%</td>
<td>44.9% 56.1%</td>
</tr>
<tr>
<td>Two or more races</td>
<td></td>
<td>40.0%</td>
<td></td>
</tr>
<tr>
<td>ELLs</td>
<td></td>
<td>62.5%</td>
<td>5.1% 15.3%</td>
</tr>
<tr>
<td>Students with disabilities</td>
<td></td>
<td>57.5%</td>
<td>7.5% 17.5%</td>
</tr>
<tr>
<td>Eligible for free or</td>
<td>29.2% 36.8%</td>
<td>38.8% 67.5%</td>
<td>26.2% 36.9%</td>
</tr>
<tr>
<td>reduced-price lunch</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*a Data are not presented for PS 316 because the school served only students in grades K–2 during the 2014–15 school year.*
### Table 7. Percentage of Students who Met/Exceeded Standard on NYS Assessment in ELA and Math (District 29)

<table>
<thead>
<tr>
<th>Student Group</th>
<th>PS 52 Grades 3–5</th>
<th>PS 195 Grades 3–8</th>
<th>D29 Grades 3–8</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ELA N=216</td>
<td>ELA N=308</td>
<td>ELA N=7,071</td>
</tr>
<tr>
<td></td>
<td>Math N=218</td>
<td>Math N=308</td>
<td>Math N=7,148</td>
</tr>
<tr>
<td>All students</td>
<td>24.5%</td>
<td>21.1%</td>
<td>31.0%</td>
</tr>
<tr>
<td></td>
<td>18.8%</td>
<td>13.6%</td>
<td>33.0%</td>
</tr>
<tr>
<td>Asian</td>
<td>-</td>
<td>-</td>
<td>49.8%</td>
</tr>
<tr>
<td></td>
<td>-</td>
<td>-</td>
<td>56.8%</td>
</tr>
<tr>
<td>American Indian/Alaska Native</td>
<td>-</td>
<td>-</td>
<td>25.8%</td>
</tr>
<tr>
<td></td>
<td>-</td>
<td>-</td>
<td>31.4%</td>
</tr>
<tr>
<td>Black/African American</td>
<td>25.4%</td>
<td>21.2%</td>
<td>26.3%</td>
</tr>
<tr>
<td></td>
<td>19.2%</td>
<td>13.4%</td>
<td>26.4%</td>
</tr>
<tr>
<td>Hispanic/Latino</td>
<td>-</td>
<td>-</td>
<td>27.2%</td>
</tr>
<tr>
<td></td>
<td>-</td>
<td>-</td>
<td>28.3%</td>
</tr>
<tr>
<td>White</td>
<td>-</td>
<td>-</td>
<td>23.6%</td>
</tr>
<tr>
<td></td>
<td>-</td>
<td>-</td>
<td>36.2%</td>
</tr>
<tr>
<td>Two or more races</td>
<td>-</td>
<td>-</td>
<td>37.0%</td>
</tr>
<tr>
<td></td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>ELLs</td>
<td>-</td>
<td>-</td>
<td>9.8%</td>
</tr>
<tr>
<td></td>
<td>-</td>
<td>-</td>
<td>16.6%</td>
</tr>
<tr>
<td>Students with disabilities</td>
<td>-</td>
<td>-</td>
<td>5.8%</td>
</tr>
<tr>
<td></td>
<td>-</td>
<td>-</td>
<td>8.6%</td>
</tr>
<tr>
<td>Eligible for free or reduced-price lunch</td>
<td>23.4%</td>
<td>20.7%</td>
<td>28.9%</td>
</tr>
<tr>
<td></td>
<td>16.9%</td>
<td>12.9%</td>
<td>31.2%</td>
</tr>
</tbody>
</table>
In 2015, NYC Mayor Bill de Blasio announced that one of the goals of his time in office is to increase the number of eighth-grade students who are prepared for algebra. As part of this effort, NYCDOE recently launched the Algebra for All initiative, which will increase the number of schools offering rigorous math instruction, including algebra, and centralize fifth-grade math at selected schools. Through this initiative, which the NYCDOE will scale up throughout the city over the next five years, school leaders will receive math-specific training and math teachers will receive grade-specific training, more common planning time, and access to an online forum to discuss math instruction with colleagues. One of the proposed magnet schools, IS 240, will be sending three of its teachers to training in the summer of 2016. Participating schools must guarantee all eighth graders the option to take algebra and ninth-grade algebra I and get at least five hours a week of math instruction by 2017–18. The logic behind increasing access to algebra, according to the city, is that research shows students who pass the subject by the end of ninth grade are more likely to graduate high school and college (Gamoran & Hannigan, 2000; Klepfer & Hull, 2012; Lee, 2012). In addition, 75 schools are participating in another branch of Algebra for All to “departmentalize” math in fifth grade. Principals at these schools will designate selected fifth-grade teachers to take on the central math role for their grade. This approach is supported by researchers who have found that the quality of math instruction improves when taught by a teacher with demonstrated expertise in this content area, especially since many elementary-level teachers are not excited about math or do not feel prepared to teach it (Condie, Lefgren, & Sims, 2014).

Today, preparing students for college and careers means equipping them with skills that will help them adapt and excel in any learning or workplace environment they encounter. These skills include those that are often referred to as “21st-century skills” or “learning and innovation
The development of noncognitive skills is critically important to ensure college- and career-readiness. Studies have shown that success goes beyond intelligence, and that a child’s character in areas of “perseverance, curiosity, conscientiousness, optimism, and self-control” matters more (Tough, 2012). When applied to academics, these noncognitive skills can help reduce disparities in achievement and educational attainment based on race, SES, ethnicity, and gender (Farrington, et al., 2012). However, research also suggests that low-income and minority students may encounter challenges in developing such character traits because they do not have the social support that more affluent students may have to keep them on the path to higher education and success in a career (Strauss, 2012). The D27-29 magnet programs will provide expanded opportunities for all students to participate in curricular and extracurricular experiences that will foster valuable college- and career-ready skills and expose them to new ideas and prospects.

The D27-29 magnet program will provide each student in the five magnet schools with a
rigorous educational experience that

- stems from a content-based theme that is unique to and draws on the strengths of the individual school communities;
- promotes the development, implementation, and refinement of interdisciplinary thematic curricula mapped to city, state, and national standards;
- embeds into teaching and learning research- and evidence-based instructional strategies that have been shown to promote high levels of student achievement and the attainment of noncognitive skills critical to students’ college and career readiness; and
- demonstrates the effective use of state-of-the-art technology to connect students to each other as well as to peers and mentors around the globe.

Each of these components of rigorous instruction is described in the paragraphs that follow. The individual magnet school descriptions that follow this overview illustrate how they will come alive in the five school communities selected to become magnets.

Each proposed magnet school will develop an **innovative, theme-based program** that provides rigorous instruction and enrichment activities to all students that are not available in other schools in the two districts. The magnet themes will be infused into core subject curricula through the development of interdisciplinary curriculum units and lesson plans to provide enhanced, rigorous, and engaging learning opportunities for all students. While the content areas of focus may vary across the five schools (e.g., computer science, leadership development, the arts, engineering, global conservation), a common thread that connects all of the magnet school designs is their emphasis on science, technology, engineering, mathematics, and in some cases, the arts (STEM or STEAM). Furthermore, all of the thematic units will be mapped to and supportive of the Common Core standards as well as the NGSS.
Magnet Schools Assistance Program (2016-2019)

Community School Districts 27 and 29 — Queens, New York

The NYCDOE is committed to working with schools to build their capacity in and develop a shared understanding of high-quality STEM education. To support these efforts, the city created the STEM Framework, a tool that provides a structured approach for schools seeking to organize and develop the implementation of a STEM initiative whose results are repeatable. It includes a readiness checklist of structures, criteria, and systems and is not intended to be judgmental or evaluative. The architecture of the Framework is presented as a structure of domains, indicators, and criteria to support the evolution of a school’s initiative over time. The Framework is designed to work alongside other data and qualitative tools to help schools develop a STEM culture that integrates well with a school’s existing instructional mission and vision, while shifting the disciplinary paradigm from multidisciplinary and interdisciplinary toward instruction and learning that is ultimately transdisciplinary.

In tandem with the development, refinement, and replication of the schools’ thematic curricula—and in support of their implementation—teachers will have opportunities to hone their practice and expand their repertoire of research- and evidence-based instructional strategies. The strategies that will be featured in the magnet programs are highlighted in the following; the plans to offer PD and coaching in these strategies are described in Section 3.

**Project-based learning** is an innovative approach to education that focuses on creating student-centered learning that supports “deeper learning through active exploration of real-world problems and challenges” (Pellegrino & Hilton, 2012). While there is no firm definition of PBL, researchers and practitioners agree upon a set of essential components of a PBL approach. First, PBL units or lessons should be motivated by a driving question or problem to be solved. Second, PBL curricula target significant learning goals (Krajcik & Shin, 2014), and last, PBL units should use hands-on experiences to promote learning (Condliffe, 2015) and be conducted over a
period of time in order for students to delve deeply into research (Parker, et al., 2013). Researchers agree that if PBL is designed effectively, it produces significant benefits to students’ learning, including promoting construction of knowledge, cultivating student engagement, providing scaffolding for student learning, encouraging student choice, and supporting student collaboration (Condliffe, 2015).

One of the partners that will be supporting the five D27-29 schools in their efforts to integrate PBL opportunities into instruction is **Big Idea Week (BIW)**. The mission of BIW is to “connect communities to light the imaginations of students and inspire them to be the next generation of makers and doers.” To accomplish this goal, BIW pairs students with volunteer mentors—local STEM, media, and design professionals from companies such as Facebook, Etsy, MakerBot, and Tech Insider—to collaborate on weeklong, immersive, entrepreneurial projects. These projects provide students with unique opportunities to develop 21st-century skills and interact with local role models, while working collaboratively with their peers in a PBL model.

BIW will collaborate with D27-29 school- and district-level magnet staff to recruit mentors and provide resources to support BIW programming at the schools. This includes the BIW project-based curriculum that will expose students to 21st-century careers and standards-aligned skills, from critical thinking and creativity to collaboration and communication. Throughout the week, students will practice researching, writing, and public speaking within a real-world, STEM-based context. By encouraging students to see the world through the eyes of an entrepreneur—as problem solvers, risk takers, and innovators—the BIW projects will build students’ curiosity and confidence and give them the tools to bring their own ideas to life.

The **Buck Institute for Education (BIE)**, a mission-driven nonprofit organization, supports teachers, schools, and districts in implementing effective PBL opportunities in all grade levels
and subject areas through its high-quality PBL instructional practices and products. For teachers, BIE offers PD on how to design, assess, and manage projects that engage and motivate students. For the grant schools, BIE will help bring coherence to PBL practices and support the creation of schoolwide processes and structures to support PBL. BIE will provide the five grant schools with rigorous PD, in the form of training and coaching, to support the effective and sustained implementation of PBL across grade levels and subject areas.

Support for D27-29’s PBL focus will also be provided by OMNiLEARN, a science education program that has been providing in-class, hands-on laboratories for students across the country since 1992, and has worked in pre-K–12 classrooms in NYC schools for the past decade. The philosophy of OMNiLEARN, which is staffed by scientists and teachers, is that students love active, exciting learning. OMNiLEARN helps teachers leverage the inherent enthusiasm of children through hands-on, differentiated science labs as a means to strengthen state-mandated math and ELA performance indicators.

OMNiLEARN will provide D27-29 schools with everything they need to deliver these dynamic, interdisciplinary, PBL science lab activities, including supplies, equipment, assessment materials, and experienced OMNiLEARN instructors who will set up and assist in the activity. The instructor will visit schools and provide district-wide PD over the course of the school year to train teachers and lead students through a series of labs customized to the students’ grade level and curricula. OMNiLEARN will also provide a bridge from the lab to the classroom. Through relationships with working scientists at some of the country’s foremost laboratories, it continually update its lab protocols and equipment to reflect the current scientific climate.

Through a partnership with the City College City Technology Project, the D27-29 schools will receive curriculum and PD materials designed to integrate science, literacy, and art in the
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Elementary and middle grades through a focus on engineering design. The City Technology team consists of NYCDOE elementary teachers and City College faculty members. They will provide technology-infused curriculum units on force and motion and energy systems—aligned with the Common Core Learning Standards (CCLS) in Math and ELA and the NYC Science Scope and Sequence and STEM Framework—that address concepts of physical science, engineering, and computer science. Services, which will be tailored to meet the instructional needs of all learners at the five schools, will also include classroom materials, classroom visits (including modeling of instruction), and family workshops based on the curriculum units.

Finally, Education Closet provides consulting services to schools and school districts in developing, implementing, and assessing arts integration and STEAM approaches to education. These services are provided through their website, EducationCloset.com, as well as through individual consultative services. As an organization, Education Closet has provided meaningful, research-based support to schools and districts that are committed to improving student performance through integrating the arts with intention and committed focus. It regularly hosts over 3,000 educators from across the world in dynamic semiannual online conferences for arts integration and STEAM. Additionally, it provides direct consulting in arts integration and STEAM both to assist school districts in turning around low-performing schools and to provide support for magnet school awardees.

Programs that teach students technology skills are especially important in low-income and minority neighborhoods where young people have less access to computers or the Internet at home (DeBell & Chapman, 2006). Students from homes with limited access and use of technology are at a disadvantage for completing technology-based tasks and often miss out on educational opportunities that require the use of technological resources (Kim & Bagaka, 2005).
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In addition to the technology applications that will be developed through the partnerships described above, a key resource to the D27-29 magnet schools will be the full-time Outreach and Technology Specialist, who will work with each school community to support the integration of state-of-the-art instructional technology supplies, equipment, and applications into their instructional programs.

Effective School Leadership

As described in the Quality of Personnel section and evidenced by their résumés attached to this proposal, the Principals of the D27-29 magnet schools are skilled, experienced instructional leaders who have been entrusted to lead the magnet initiative in their respective buildings. Magnet training for Principals will come from the experienced Project Director, as well as Magnet Schools of America (MSA) and USDOE conferences. Each Principal will participate in regular progress meetings with the D27-29 Project Director, as well as group meetings with the other magnet Principals to share best practices.

Supportive Environment/Trust

As described earlier in this section, the NYCDOE’s research-based Framework for Great Schools identifies a supportive environment and trust as two of the key elements of high-quality, effective schools. According to the Framework, supportive schools are environments where students feel safe both in and around the school building and while they travel to and from home; the culture of the school is such that students push one another and consider doing homework and paying attention in class to be important; teachers work closely with students who may have missed class or are falling behind; and teachers explain things in a different way if a student does not understand something in class. In order to increase the supportiveness of NYC schools, NYCDOE has improved school-based behavioral supports and mental health services by
enhancing PD for guidance counselors; emphasizing and expanding training in progressive discipline, restorative justice, and social-emotional learning; and expanding the school-based free lunch program to include all eligible middle school students, thereby reducing free-lunch stigma.

According to the Framework for Great Schools, a trusting school environment is one where teachers listen to student ideas and incorporate them into their instruction and are able to comfortably share their feelings, worries, and frustrations with other teachers and Principals in order to maintain mutually trusting and respectful relationships with other teachers and families. Recognizing the importance of fostering trusting school environments, the NYCDOE continually seeks input and feedback from families, teachers, and Principals to understand their needs and strive toward the shared goal of improved student achievement.

**Strong Family-Community Ties**

Consistent with the citywide philosophy on parent involvement, D27-29 recognizes that schools, families, and community members share responsibility for the education of all students. To support the goals of the District and schools to effectively educate all students, schools and parents must work as knowledgeable partners. Parents, teachers, and administrators in the District work together through the SLTs, PA/PTAs, Presidents Councils, Title I Parent Advisory Councils, and other formal and informal groups and organizations to ensure that all students meet high standards in safe, nurturing environments. Furthermore, each school in D27-29 has an on-site Parent Coordinator who is responsible for promoting parent engagement by creating a welcoming environment in the school, supporting parent leadership activities, expanding parent involvement activities, and helping resolve parent issues and concerns.

In addition to establishing strong ties with the parent community, the D27-29 magnet initiative has brought together a robust set of community partners that have expressed their
commitment to support the various facets of the magnet program design, including curriculum development and enrichment and PD and coaching. In some instances, schools will continue or expand existing linkages with community partners as their work aligns well to the scope of the magnet program. Most schools have begun the process of reaching out to new local, regional, and national organizations that would bring specific expertise to the magnet project design. In all cases, the MSAP project team will work with the schools to ensure that the services proposed will add value to the school community and to the magnet program, that costs are in alignment with NYCDOE and USDOE fiscal and contracting policies and practices, and that the efforts of all outside partners are coordinated to avoid duplication or fragmentation of services.

**Individual Magnet School Program Designs**

Each school selected to participate in the magnet initiative engaged in a broad-based, collaborative planning process in developing its magnet program. To structure the process, each school established a magnet planning team composed of teachers, administrators, staff developers, and parents and carried out several school-based planning activities to solicit the input of all key stakeholders in the design. Schools were provided with copies of several tools that were developed by the NYCDOE to guide the teams through the planning process. These tools include a school-based program design worksheet, a budgeting worksheet, a template for program partnership descriptions, a template for letters of support, and signature pages for gathering support from school staff and parents. The school-based teams met individually with the district planning team several times during the planning process to provide updates and get feedback and support in designing their programs. A detailed description of each proposed magnet school program is provided in the section that follows.
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Magnet School for Innovation, Exploration, and Engineering

PS 52 is located in the southeastern Queens community of Springfield Gardens. The school serves 511 students in grades pre-K–5. Through the magnet program, PS 52 will become the Magnet School for Innovation, Exploration, and Engineering.

The school has developed a number of partnerships, supports, and resources that will help drive integration of its chosen theme so that every student in every grade has an opportunity to “see it, build it, and know it” (www.salavadori.org).

- Using materials provided by Pitsco Education, a company founded in 1971 by three classroom teachers that offers a comprehensive array of STEM “missions” for grades K–12 students, PS 52 students in grades 3–5 will receive a rigorous, hands-on STEM curriculum. Though the content focus of instruction is science, the curriculum integrates various math, technology, and language arts experiences.

- A partnership with the Salvadori Center will provide students in grades 1–5 with collaborative, hands-on, project-based learning through the study of buildings, bridges, parks, and communities.

- The school will use Lego Story Visualizer software to provide students with engineering, technology, and literacy learning through model building, writing, and photography. Through Snap Circuits, students at PS 52 will build small machines (e.g., radios, digital voice recorders, and doorbells) and through K’Nex, students will learn about the history, function, structural design, and strength of bridges.

- MindLab will engage students in games that are designed to prepare them for the complex challenges of the 21st century by strengthening their cognitive, emotional, and
social skills; teaching them to think reflectively; and encouraging them to “learn how to learn.”

- A residency with the **CUNY Creative Arts Team**, which aims to support the growth and well-being of students by identifying and responding to their personal, social, and educational needs through theater and participatory drama, will support innovation and engineering through both PD and direct student services that would foster discovery and expression.

- Starting with the 2016-17 school year, PS 52 will partner with the NYCDOE Computer Science for All initiative. This will train teachers to provide meaningful, high quality computer science instruction.

To provide a framework for theme-based instruction and learning and coordinate the efforts of these partnerships into a coherent schoolwide magnet curriculum, PS 52 staff will develop thematic, cross-content units of study that will immerse students in innovation, exploration, and engineering throughout the school day. The curricular units will be grounded in engineering and math and will be aligned with the New York City STEM Framework and Science Scope and Sequence and Next Generation Science Standards (NGSS) to ensure all STEM content is thoroughly covered. Reading and writing units will complement the science and engineering curriculum. As part of these units, students will read theme-related content in a variety of formats (e.g., trade books, articles, poems, fiction, nonfiction, folk tales, and essays) and write informational, procedural, narrative, and opinion pieces that will explore what they are reading. At any given time, they will have at least five reading sources in their “book baggies,” which will be exchanged weekly. When possible, teachers will integrate social studies concepts to complement the reading and writing units. The engineering process—problem, design, test, and
The school will develop new partnerships with **Idlewild Environmental Center** and **Alley Pond Park Environmental Center** to engage students in the study of plants, animals, wetlands preservation, hydroponic gardening, and sustainability of natural resources, such as saltwater marshes. For example, through the partnership with Idlewild Environmental Center, a wetland preserve, students will engage in project-based learning (PBL) to learn about how wetlands work, understand the importance of and need for wetlands, and create a model and simulation of a wetland. The school will also establish a partnership with nearby John F. Kennedy Airport, which will provide opportunities for students to work directly with experts in aircraft design, engineering, and mechanics of aviation.

PS 52’s technology equipment and resources will be vital in supporting integration of the magnet theme. With funding from the magnet grant, the school will create mobile engineering and science labs that will serve as Makerspaces and will include 3-D printers, digital microscopes, time-lapse video cameras, robots, and LEGO and Engineering Is Elementary kits. In addition, the school plans to purchase GreenStem Educational Materials (e.g., solar panels) and audiovisual equipment and software needed for filming, editing, and producing.

Students will be further immersed in the theme through various theme-based, after-school enrichment programs, which will include engineering activities, such as robotics and Lego construction; gaming and coding provided by Creative Computing; and strategy-related games such as chess and MindLab. These enrichment activities will meet at least two times a week and be facilitated by school staff and partnerships.

PS 52 will provide various opportunities for parent engagement in theme-based learning. These offerings will include a STEM overview workshop, a STEM fair where students present
their projects, field trips, family math night, and a science club for parents. The school will disseminate overviews of the thematic units to ensure that parents are informed about what their children are learning. In addition, the school will administer a survey to gather data on parent interests, which will be used to inform the content of magnet parent engagement activities.

PS 62—Chester Park School

Magnet School for Computer Science and Innovation

PS 62 will become the Magnet School for Computer Science and Innovation, providing students with opportunities to engage in real-world problem solving through an interdisciplinary curriculum incorporating computer science, arts, and STEM. Located in Richmond Hill, Queens, PS 62 serves 951 students in grades pre-K–5.

The magnet grant will provide PS 62 with the opportunity to nourish every student’s ability to think and act in innovative ways through a continuously evolving arts, STEM, and computer science curriculum. In each year of the program, all students will engage in interdisciplinary units of study incorporating coding, robotics, and arts innovation; over the course of these units, they will develop engineering skills and, through trial-and-error processes and real-world problem solving, will become makers of art and apps. Each interdisciplinary unit will culminate in a Maker Faire where students display and present their creations to audiences of their peers, parents, and the larger school community. To support this process, the school will establish Makerspaces in all classrooms and will strive to foster a school culture where everyone is considered a maker. Each teacher will conceptualize and design his or her classroom’s Makerspace, which can range from a box of materials to a whole section of the room furnished with a 3-D printer or other equipment.
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An example of such an interdisciplinary unit might be a third-grade case study of a world community. Students will use Google Sketch-Up to create 3-D maps of the geographical location; Scratch to create stories with animation to present information about the community; Scratch Design Studio and Garage Band to create original music representative of the cultural music of the community; and Google Earth to “visit” the place. Students will use Google Chromebooks for research and presentations. The unit will include a service learning component during which students will use 3-D printers to create bracelets and key chains that they will sell to raise money for a specific cause in the community they are studying.

Computer science instruction will be provided by three computer science teachers, with the goal that by grade 5, all students will be proficient in various skills, including commands, sequencing, debugging, conditionals, loops, binary language, functions, story creation, and game design. The school has developed a coding curriculum and scope and sequence for grades K–2 using a combination of apps and unplugged activities. This will be expanded to the other grades as part of the magnet program. Students in grades pre-K–2 will learn code and engage in individualized learning using mini iPads. Grades K–2 classrooms will also be furnished with a LEGO table to support development of students’ creative skills as well as ELL students’ listening, speaking, and social skills. Grades 3–5 will use one-to-one Chromebooks and Google Apps to share work, view videos, and learn independently on blended learning programs (e.g., Compass Learning). Partners Google CS First and Code.org will provide coding curricula for students.

In addition, through a partnership with Tufts University, selected teachers will participate in an online graduate certificate program focused on early childhood technology, and all teachers will receive school-based PD workshops and job-embedded coaching facilitated by an
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An educational technology expert from the university. In addition, a team of teachers will attend summer institutes at Tufts University to participate in professional learning on how new technology-related concepts, such as robotics and programming languages, can be successfully used by educators to promote STEM education in early childhood.

All students will also receive theme-based arts education from music, arts, and dance teachers that will include use of computer technology and STEM connections. For example, students will create 3-D line drawings and sculptures; use digital software to create animated videos and write and record music; and engage in music-themed action games, which require players to press buttons in a sequence dictated along with a soundtrack.

PS 62 has a STEM classroom, staffed by an assigned STEM teacher, which will be enhanced through the magnet grant, adding microscopes, flat tables, additional 3-D printers, iPads, plants and animals, and maker materials (e.g., gears, ramps, screwdrivers, and wood) to facilitate inquiry-based, hands-on learning. The use and function of the STEM classroom will also be expanded through the grant by serving as a Makerspace where students will build and create simple machines, robots, and other projects from scratch.

All students will attend a variety of theme-related field trips to supplement and extend the theme-based curriculum, including trips to the Copper Hewitt Museum, where they will receive guided tours of exhibits on innovative architecture and design. In addition, the New York Hall of Science will provide a full year of weekly in-school coaching through their science coach program to build staff capacity to implement STEM approaches in the classroom. The science coach will meet with teachers to address challenges and needs, model lessons, and provide guidance on how to use a science lab or Makerspace within the school. In addition, the New York Hall of Science will provide STEM enrichment to students through its Little Makers
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Program, which is designed to empower young children with “making” activities that promote literacy, provide an introduction to tools and tool making, and help develop skills that are key to the scientific process (e.g., observation, experimentation, prediction, and communication).

In addition, students will have the opportunity to self-select into a magnet after-school club, with options including STEM, robotics, coding, design, dance, music, and art. All after-school clubs will incorporate student use of technology (e.g., building robots, using music production software and equipment, and creating multimedia art projects).

PS 62 is committed to engaging parents in theme-based learning throughout the school year. Parents will also be invited to participate in at least six interactive family workshops on STEM, coding, and visual and performing arts throughout the year. For example, the art teacher will facilitate a workshop where parents and students will work together to conceptualize and create a mural for the school that depicts theme-related concepts. Staff will ensure that parents are informed about the magnet program through the school website and social media accounts. All information for parents will be translated in Punjabi and Spanish, the two primary languages other than English spoken by the school community.

PS 195—William Haberle

The Academy of Multimedia Arts and STEM

PS 195, an elementary school located in the Rosedale section of Queens, serves 617 students in grades pre-K–5. Through the magnet grant, PS 195 will become the Academy of Multimedia Arts and STEM, providing students with opportunities for STEM-infused, hands-on learning and enrichment. Through the use of state-of-the-art technologies, students will engage in video storytelling, coding, robotics, digital design, and journalism.
Theme-based instruction will feature research-based, student-centered strategies with a strong emphasis on collaboration, hands-on activities, multisensory strategies, and PBL. Students will be inspired through meaningful, explorative STEM projects that require inquiry, collaboration, innovation, and reflection. They will use the engineering design cycle to help them research, plan, create, improve, and reflect on projects and learning, as well as find creative solutions to challenges. Students will communicate with each other and with the community at large to create positive change; they will obtain a clear sense of how communication is critical to shaping a caring, active, and engaged social environment.

Staff will develop a cross-content curriculum map that will include thematic units aligned with Next Generation Science Standards (NGSS) at each grade level. The thematic curriculum will include literacy connections at each grade level that incorporate the use of theme-related print resources and nonfiction literature. For example, students will learn about media’s power to influence and how an audience perceives media messages, and they will use 21st-century media formats (e.g., blogs) to share their voices and express their own informed opinions and ideas. Additionally, the school will use resources from STEM partners, such as NASA and New York Hall of Science, to ensure that thematic learning includes rigorous science connections and is aligned with the NYC Science Scope and Sequence and NGSS. Instruction will be further enhanced through cross-content arts connections. Students will gain inspiration from museums, music, visual arts, photography, poetry, drama, and dance to inform their projects. Culminating activities will focus on digital content and representation.

Thematic instruction will be supported by residencies with local arts partners, including LAMP, Marquis Studios, and the Salvadori Center. These partnerships will be essential in building teacher pedagogy and providing students with support in both multimedia and STEM.
Each of these organizations will customize their programs to align them to the thematic units. To further support staff, PD and job-embedded coaching will be provided by Engineering Is Elementary, Beyond Tutoring, and C&P Creative Multimedia Arts.

The school’s two science labs serve as living environments for reptiles, fish, plants, and animals. Through the grant, one of these labs will be developed into a STEM lab where students will use the design cycle to complete engineering projects that are tied to the thematic units (e.g., an invention that protects local ecosystems, a technology that Native Americans would have benefited from, a clean water distribution system). Each class will work in the STEM lab for one period per week, and the remaining available periods will be assigned to students who are working on technology-based projects (e.g., robotics, video storytelling). In addition, students will use various cutting-edge digital programs and resources to support theme-based learning, including Adobe Voice, Scribble My Story, Shutterbox, Bitstrips, Skitch, Collage.com, Little Story Maker, and Animoto Video Maker.

Students at each grade level will have opportunities to participate in theme-based enrichment activities such as museum tours guided by partner Museum Hack, a NYC-based company that offers “highly interactive, subversive, fun, non-traditional museum tours.” Enrichment experiences will also be provided during out-of-school time, including a Junior First LEGO League, the Vex Robotics club, and a student-produced newspaper, The Haberle Times. In addition, the school will establish an after-school chess club that will be facilitated by Chess in the Classroom and will provide students with opportunities to develop math-based critical thinking skills. In Year 1, the chess club will be offered to grades 4–5 and will be expanded to the third grade in Year 2. PS 195 will also establish an advertising committee for grades 4–5 that will use the school’s multimedia technology equipment and resources—including the STEM lab,
Parents will be engaged in the magnet program through town hall events, student-led conferences, and family workshops. For example, the school will invite parents to coding workshops, which will be designed to inform parents of the value of coding and how having this skill set can benefit their child in the future. The school will invite experts in STEM and multimedia arts to town hall meetings and conferences to engage parents in theme-based hands-on activities and discussions. Translators will be available at these events to ensure that every member of the parent community is engaged in the discussion.

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**PS 254—Rosa Parks Elementary School**

**The Magnet School for Leadership Development and the Arts**

PS 254 is an elementary school located in Richmond Hill in the borough of Queens, a residential community of single-family homes located along the southwestern edge of 538-acre Forest Park. The school currently serves 676 students in grades pre-K–5. The magnet grant will support the transformation of PS 254 into the Magnet School for Leadership Development and the Arts. This theme builds on a number of components already in place but will bring them into a coherent schoolwide set of programs and practices. For example, the school currently implements an arts education program that is aligned to the New York City Blueprint for the Arts, implements a book-of-the-month activity focused on habits of good leaders, and has an active student council that allows students to learn about the inner workings of government and develop personal leadership skills. The school will also capitalize on a number of arts partnerships, including with local arts partners Studio in a School; Cultural After School Adventures, which provides after-school cultural enrichment in areas such as jazz, percussion,
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poetry, puppetry, dance, and printmaking; and Disney Kids, a musical-theater grant program.

Using the magnet grant and leveraging its existing resources, PS 254 will create a student-driven magnet program that is centered on leadership with transdisciplinary connections to the arts and technology. All students will be immersed in the overarching theme of leadership through The Leader In Me curriculum, developed by Stephen R. Covey. Implementation of this curriculum will help to create a school environment in which every student becomes self-reflective and aware of his or her choices and how they affect others. The program empowers students to lead their own learning and teaches students the skills needed for academic success in any setting. These skills include critical thinking, goal setting, listening and speaking, self-directed learning, presentation making, and ability to work in groups.

To provide a framework for thematic instruction, the school will develop and implement a specialized curriculum featuring units of study that drive a PBL approach to teaching and learning. All units will be aligned with the NYC Science and Social Studies Scope and Sequence and be guided by the same essential question across all grade levels and content areas, with customization by grade and class. Implementation of the math component of the curriculum will be supported by Math Solutions, which will provide PD, job-embedded coaching, and instructional resources to staff. All instruction will promote leadership through student choice, collaborative group work, and self-directed learning.

One example of an essential question might be, How do people and the environment interact and influence one another? In a second-grade thematic unit that addresses this essential question, New York State of Mind: New York City Over Time, students will study early New York, focusing on the built environment and its impact on the city’s communities and residents throughout history. Through a partnership with the New York Historical Society and use of
visual arts and digital storytelling, students will use a variety of mediums to represent their learning of the changes in NYC over time. More specifically, students will explore technological advancements in areas such as transportation and communications to address the essential question. Another unit addressing the theme *New York City Over Time* might focus on the rich history of nearby Forest Park. Students will learn about how the park was first developed by Frederick Law Olmstead in the late 19th century and how it has changed over time, including the damage the park sustained during Superstorm Sandy. The unit will address science requirements through the study of the many species of trees featured in the park, including the northern red oak, tulip tree, and shagbark hickory. Students will visit various sections of the park throughout the unit to engage in interactive, hands-on learning activities. The leadership component will include a focus on environmental stewardship, in which students will use multimedia to increase public awareness of local and global issues and raise money for important causes. At the end of each unit, as a culminating event, students will invite family and community members to a formal presentation of their unit projects.

PS 254 will continue to implement its current cluster enrichment classes with support from the school enrichment model, which provides enrichment based on student interest in areas such as robotics, art, music, design, dance, language, debate, digital storytelling, and entrepreneurship using various learning strategies (e.g., research, investigation, problem solving, leadership, and critical thinking).

The school will continue to implement its current after-school clubs in visual arts, music, dance, and science (provided by the Queens Botanical Gardens) and will expand and enhance these offerings using MSAP grant funds. Arts enrichment will be provided by partners TADA Arts Education and New Victory Theatre, while LEGO Education will provide enrichment in
STEM by making science, technology, engineering, mathematics, and coding come to life. The unique combination of the LEGO brick, classroom-friendly software, and engaging, standards-based projects will result in a resource that builds students’ confidence to ask questions and enhance their leadership skills by defining problems and designing their own solutions.

The school’s librarian and art and science cluster teachers will collaborate to help students conduct their research, and the school’s resources and facilities, including a science lab, A+ Mobile STEM lab, grow lab, computer lab, and art room, will support schoolwide implementation of the magnet theme.

Parents will be engaged in the magnet program through participation in school leadership team and parent association meetings, Coffee and Conversation events hosted by the principal, student showcases at the end of each unit, and a magnet kickoff event for families in the fall. In addition, the school will gather parent feedback and ideas for the program through a parent survey and will share information about the program throughout the school year using brochures and memos. All parent communication and meetings will be translated into multiple languages to ensure all parents are reached.

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**PS 316—Queens Explorers Elementary School**

**Magnet School for Global Conservation and Service Learning**

PS 316 will become the Magnet School for Global Conservation and Service Learning. Established in 2014, PS 316 currently serves 358 students in grades pre-K–1, with an additional grade to be added each year until it reaches grade 5. PS 316 selected the theme of global conservation and service learning as it is closely aligned with the school’s existing mission:

At Queens Explorers Elementary School, we are committed to teaching students the essential
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skills to become active and engaged global citizens. We will build character through our core values of responsibility, respect, and trust and teach social actions to effect positive change in our local community and around the globe. Students will make global connections and impact the world for the better through an interdisciplinary curriculum and service learning programs.

To achieve this mission, the school has successfully implemented a variety of activities, projects, and instructional activities that encourage students and their families to make an impact on their local and global communities. For example, the school currently requires all students to complete service learning projects each year. Using a transdisciplinary approach with a focus on six-week units of study across all grades, PS 316 will infuse the global conservation theme into content area instruction and connect service learning projects to these units. Staff will develop a K–5 Global Exploration curriculum that will include the following components: global-themed ELA and math units; a scaffolded curriculum that will allow students to learn about global topics more in-depth as they grow; distance learning; and the Science Boardworks technology program, educational software that offers interactive resources aligned to state standards and a wealth of exciting multimedia activities including tasks, animations, flexible diagrams and graphs, audio, video, and quizzes. The school will also be using Mathletics, an online supplemental math resource that delivers targeted adaptive practice to all students. To support the implementation of thematic instruction, the school will receive PD, curriculum, and manipulatives through a partnership with LEGO Education and student and staff design and engineering workshops from Brennan Development Corp.

To develop students’ awareness of the need for conservation in a variety of areas (e.g., recycling, animal conservation, global warming, preserving the environment through
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agriculture), all students will engage in several service learning projects each year. Projects will be integrated with the Global Exploration curriculum and will be completed on the same six-week cycles. As mentioned, PS 316 already has a service learning focus, by which students participate in two or three projects a year. Through the magnet program, the school will expand this to six projects per year. Each community service project will be fully integrated with the thematic curriculum so that students can make connections between what they are learning in the classroom and the service learning projects they are developing. In addition, each project will focus on a conservation-based theme that will be aligned vertically across all grade levels so that all students will be simultaneously exploring a similar topic area. All projects will be led by a service learning teacher team that will include a teacher from each grade level and will follow a four-phase structure (preparation, action, reflection, and celebration phases). Projects will feature activities that help both the local and global communities (e.g., as part of a project on planting, students would plant trees in the school yard and learn about tree-planting initiatives in Africa); Common Core–aligned STEM curriculum connections at each grade level; and at least two parent involvement activities. In addition, each service learning project will be supported by at least one external partner.

One example of a transdisciplinary unit would be Polar Bear Conservation. In kindergarten, students will learn about polar bears and the threats to their habitats. As they get older, students will learn about climate change and global warming and explore the connections between these phenomena and the threats facing polar bears. As part of the ELA curriculum, students will engage in a question-and-answer session via Skype with a polar bear expert from Polar Bears International. Prior to this virtual session, students will collaborate to develop questions for the expert related to polar bear habitats and initiatives that are in place to prevent extinction of the
species. At each grade level, students will apply STEM knowledge and skills to design structures to help polar bears survive. Kindergarten and first-grade students might use toothpicks and marshmallows to create their structures; students in grades 2–4 might use wood or metal objects or recycled goods sourced from the community. The school’s partnership with the Cooper Hewitt Design Museum will be instrumental in this design-cycle work. Furthermore, the school’s partnership with the Bronx Zoo will allow students to engage with professional animal experts who will provide presentations and resources on endangered animal species, and Alley Pond Environmental Center will be used to explore environmental and conservation issues.

Students will engage in the reflection phase throughout the project by recording weekly reflections in a journal. At the conclusion of the project, all students will complete a final culminating reflection activity, such as a poem or essay. In the celebration phase, students will come together with the school staff, partners, and family and community members who supported their projects to showcase their accomplishments and demonstrate how they affected the local and global environments. Showcases will be in various formats, including schoolwide assemblies, student performances, and expos of student work.

Theme integration will be further supported through “reteach and enrich” periods. Teachers will work with small groups of students to reinforce ELA and math skills through science and social studies content. Student groupings will be determined based on individual student needs as identified by academic performance data. Reteach and enrich periods might focus on math using real-world word problems that include science vocabulary or extend learning on a particular writing genre (e.g., persuasive writing) in the context of the current service learning project topic.

Students will be further immersed in the theme through various school-day and out-of-school
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time-enrichment activities. Theme-based, after-school activities will include a land, sea, and wildlife conservation program as well as a global conservation bookmaking club. Students will have the opportunity to participate in Google’s CS First Coding program. These enrichment activities will meet weekly and be facilitated by a school administrator or magnet partner staff.

To support implementation of the global conservation and service learning curriculum, the school will develop a global conservation lab. The lab, which will be equipped with two Promethean Active tables that the school will purchase with grant funds, will be used to support thematic learning, showcase students’ service learning projects, provide a venue for student discussion and collaboration, and serve as a resource for staff and parents. A schedule will be established for the lab so that each class has regular opportunities to work in it on various hands-on activities. For example, as part of a makers lab, students would complete STEM challenges using materials and equipment in the lab (e.g., working in pairs to use recycled materials to make a freestanding tower that is at least 24 inches tall). Furthermore, schoolwide conservation-oriented events will help to build the school’s culture and sense of community and support recruitment efforts. An example might be inviting parents to the school to plant a garden as a community beautification project.

Various other opportunities for parent engagement in thematic activities will be provided by the school. As mentioned, parent engagement is a main component of the service learning projects. For example, in the first two weeks of the project cycle, during the action phase, parents will be invited to an event during which staff will introduce them to the project and provide an overview of what their students will be accomplishing in the following weeks. Parents will also be invited to attend an event during the celebration phase at which students will showcase their projects and demonstrate the impact they have made on the environment.
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(2) The Secretary considers the extent to which the applicant demonstrates that it has the resources to operate the project beyond the length of the grant, including a multi-year financial and operating model and accompanying plan; the demonstrated commitment of any partners; evidence of broad support from stakeholders (e.g., State educational agencies, teachers’ unions) critical to the project’s long-terms success; or more than one of these types of evidence.

Commitment to Magnet Project

As evidenced in the first section of this proposal, there is widespread support for the D27-29 magnet initiative, stemming from the highest level of the NYCDOE down to each of the proposed magnet schools. Table 8 shows the number of parents and staff in each school who expressed support for the magnet program (these support forms are provided in the Optional Narrative Attachments). Should D27-29 be awarded an MSAP grant, the momentum and excitement that was generated during the proposal development phase will be leveraged in support of program implementation.

Table 8. Number of Parents and Staff Who Signed Support Forms for the Magnet Programs

<table>
<thead>
<tr>
<th>School</th>
<th>Parents (N)</th>
<th>Staff (N)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PS 62</td>
<td>357</td>
<td>90</td>
</tr>
<tr>
<td>PS 254</td>
<td>109</td>
<td>60</td>
</tr>
<tr>
<td>PS 316</td>
<td>322</td>
<td>56</td>
</tr>
<tr>
<td>PS 52</td>
<td>38</td>
<td>38</td>
</tr>
<tr>
<td>PS 195</td>
<td>28</td>
<td>22</td>
</tr>
</tbody>
</table>
Capacity-Building Strategies to Support the Sustainability of Magnet Programs

Built into the D27-29 magnet program design—and funded by the MSAP grant—are numerous activities that, starting from Day 1 of grant implementation, will help to establish a solid foundation for the sustainability of the five magnet programs. These activities include (1) developing and refining innovative, thematic curricula; (2) offering extensive PD and support to magnet teachers and school leaders; (3) building strong and lasting collaborations with outside partners; (4) working with parents to enhance their decision-making roles; (5) designing and implementing formative evaluation tools to measure the programs’ progress as they mature; and (6) providing staff from the magnet schools to disseminate and share lessons learned from magnet implementation. These capacity-building activities, which are described throughout this application and are summarized in the following, will provide a fertile environment in which the successful project components will continue to flourish after federal magnet funds expire.

Curriculum Development. Over the three-year grant period, with the support of MSAP-funded partnerships, school-based Magnet Resource Specialists, and the district-based Curriculum Specialist and Outreach and Technology Specialist, the D27-29 magnet schools will develop and disseminate theme-based curricular materials and course sequences for use by classroom teachers, cluster and specialty teachers, and staff working in extended-day and extended-year programs, thereby increasing the schools’ capacity to meet current and emerging student instructional needs. These curricular products, which will be developed by each school over the course of the project, will contain standards-based goals and objectives, activities, resources, and assessments that are tied to each school’s magnet theme and will serve as an important vehicle for sustaining the magnet programs beyond the funding cycle.
Professional Development and Support for Teachers. The comprehensive PD initiatives will enable staff at each of the magnet schools to develop and implement evidence-based instructional strategies that will transform their classrooms into innovative and effective learning environments. The MSAP Project Director and Site Coordinators will arrange opportunities for teachers to share the skills and knowledge learned through PD with their colleagues in workshops, intervisitations, cross-school conferences and meetings, and study groups, as well as through digital media. Additionally, the Magnet Site Coordinators and Resource Specialists at each school will use established structures for planning and collaboration with key staff within the school—such as inquiry teams, professional learning communities (PLCs), and grade-level teams—to support effective implementation of the magnet program.

Enhanced Decision-Making Roles for Parents. D27-29 is strongly committed to developing collaborative and supportive relationships with parents, and that commitment extends to the magnet program. As part of the planning phase for this proposal, each of the D27-29 magnet schools conducted outreach to its parent communities to disseminate information and mobilize support for the program (evidence of parental support for the magnet programs is documented in the parent sign-off sheets that each school has collected and is summarized in Table 8).

The schools will provide opportunities for parents to expand their role through participation in a wide variety of magnet-related parent involvement events. As discussed in the individual magnet program descriptions, each magnet school has already begun developing such activities. The schools also plan to establish school-based magnet parent advisory committees to ensure that parents have an opportunity to play a meaningful role in magnet planning. Additionally, each school’s Site Coordinator will facilitate monthly meetings with the school-based Parent...
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Coordinator in an effort to strengthen the school’s capacity to support and empower parents.

Continuous Improvement Process. D27-29 will implement a process of continuous improvement that incorporates real-time data, feedback from various stakeholders, and rigorous research to test, refine, and scale the models and practices that define the magnet programs. Continuous improvement will be achieved through an iterative cycle that includes six steps: goal setting, testing models of innovation, timely and regular feedback, monitoring and measuring quality of inputs, information sharing, and opportunities for ongoing corrections. The cycle will be repeated continuously throughout and beyond the grant term to spur ongoing innovation.

The Project Director will work closely with the five Site Coordinators and other magnet staff and in conjunction with teachers and administrators to complete continuous improvement of activities. For example, the Magnet Resource Specialist will meet regularly with teachers to obtain formative feedback on their experiences with the magnet program. The school-based magnet team, in collaboration with school administrators, will use teacher feedback as well as feedback obtained from other key stakeholder groups (e.g., parents, students, and program partners) to identify ineffective practices and implementation challenges and inform midcourse corrections to program activities. Feedback on implementation best practices will be shared among and within the five schools through cross-school magnet meetings, school-based PLCs, and other collaborative forums.

A program evaluation is a key mechanism supporting the continuous improvement process. As discussed in the Evaluation Plan, the evaluation is to be carried out jointly by the project staff and the project evaluator and is designed to gather formative and summative findings on program implementation and outcomes in order to ensure that project activities are being carried out as planned and to address challenges or issues as they arise.
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Business and Industry Partnerships. The D27-29 magnet program will also leverage a strong network of local business and industry partners to support the implementation of the magnet programs, both in the initial period and on an ongoing basis. One example of such a partnership is Big Idea Week, an organization that will be providing the D27-29 schools with STEM enrichment to support their thematic programs. The mission of BIW is to “connect communities to light the imaginations of students and inspire them to be the next generation of makers and doers.” To accomplish this goal, BIW pairs students with volunteer mentors—local professionals from companies such as Facebook, Etsy, MakerBot, and Tech Insider—to collaborate on weeklong, immersive, entrepreneurial projects. Big Idea Week started as a collaboration between the Dumbo Business Improvement District (BID) and Alex Rappaport, a co-founder of Brooklyn-based education company Flocabulary. With funding from a city initiative called the BID Challenge, they set out to develop a program that would build a bridge between Dumbo startups and PS 307, a local elementary school. With the help of the Dumbo BID and Flocabulary's curriculum team, the project brought together an all-star crew of STEM, media and design professionals and launched the inaugural Big Idea Week in May 2013. The program returned to PS 307 in 2014, and expanded to 19 schools in NYC by 2016, including all NYC funded magnet schools. In this most recent iteration, Big Idea Week engaged 80 mentors to reach approximately 1,000 NYC students. Big Idea Week gives the NYC tech and design industry an opportunity to take social responsibility more seriously, and give back to their local communities in a meaningful way.

Dissemination Strategies. D27-29 will use a wide variety of strategies to disseminate lessons learned and best practices in magnet implementation. These activities will use well-established networks at the district level as well as national and virtual venues to support
in institutionalization and contribute to the knowledge base of effective magnet practices.

The monthly meetings of school-based magnet staff convened by the Project Director will provide an invaluable opportunity for the magnet schools to discuss implementation experiences, challenges, and effective practices with their peers and to share the curricular products that have been developed. In addition, the Project Director and other district- and school-based magnet staff will actively participate in USDOE and MSA-sponsored conferences throughout the three-year project period to learn about the experiences of magnet districts and schools across the nation and to share best magnet practices from D27-29 in these venues.

Finally, the District will capitalize on its information technology structure to support the project’s dissemination goals. The D27-29 magnet schools will use the various virtual collaboration vehicles that have been established or endorsed by the NYCDOE, including Ning and Moodle, to support and enhance schoolwide professional learning about theme integration. A magnet website will be developed as the overarching umbrella to unite the five schools in their endeavors and will facilitate communication and information sharing between the schools, parents, and the larger community. The website will include information about each school as well as student- and teacher-generated materials, such as a blogging site for sharing information and for teacher and student collaborations; lesson plans and student work products, including multimedia projects; PD opportunities and resources; links to specific subject-related resources; links to the websites of all partners involved in the grant; and student-created public service announcements, advertisements, and posters that show the types of activities and partnerships that each magnet school has cultivated.

Recognizing the potential for increasing the diversity of its public schools, NYCDOE has successfully pursued a number of magnet grants that provided seed funding for schools to
convert into whole-school magnets. These are some examples of schools that are sustaining their magnet programs:

- **PS 100—The Magnet School of Multimedia and Communication in D21** was funded in 2004 and has a functioning broadcast studio where students produce shows and broadcasts. It continues to implement the thematic curriculum, which includes courses in journalism and video making.

- **PS 119—The Magnet School for Global and Ethical Studies in D22** was funded in 2007 and has sustained its magnet program for almost 10 years. The program culminates each year in an annual schoolwide Magnet Expo showcasing students’ theme-based project work. Over the years, the annual expo has been attended by the Chancellor of NYCDOE, the D22 Superintendent, District and field office support staff, parents, community members, and other D22 schools.

- **PS 257—The Magnet School for the Performing Arts in D14** was funded in 2010 and continues to implement a schoolwide magnet program. The students at this school perform at various public venues, and the school band has been featured in several publications.

- **MS 421—West Prep Academy in D3** is a middle school with the theme Youth Voice, Youth Media. The school, which received MSAP funding in 2010, continues to implement its thematic curriculum. The school has received grants from iZone and the Center for Arts Education to support sustainability of their magnet program, and in 2016, it implemented a new PBL class titled Become a Recording Artist where students take on the role of a music producer.

- **PS 185—The Early Childhood Discovery and Design Magnet School in D3** has sustained its early childhood engineering and robotics theme since 2010. It continues to implement an
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engineering design–themed curriculum created in partnership with Marina Bers of DevTech Research at Tufts University.

- **PS 208—Alain L Locke Magnet School for Environmental Stewardship in D3** has sustained its environmental stewardship theme since 2010. It still has a working hydroponics lab and indoor gardening program. After the magnet funding ended, a delegation of 20 educators from Holon, Israel, visited the school in order to learn about the magnet program to help support development of a similar program in their own school district. The following year, the Principal of PS 208 was invited to Holon to serve as keynote speaker at an educational conference the delegation was hosting and was invited to serve as an advisor to the District as they worked to implement systemic and thematic changes in their schools.

**Multyear Financial and Operating Models to Sustain Magnet Programs**

In June 2015, the NYCDOE’s Division of Finance issued the *Fair Student Funding & School Budget Resource Guide*, which is designed to enable Principals and their SLTs to closely align their schools’ fiscal initiatives to the principles set forth by the Schools Chancellor. The Guide presents the Fair Student Funding formula, which includes four categories: foundation (a fixed sum of $225,000 for all schools); grade weights (based on student grade levels); needs weights (based on student needs); and enhanced weights for students in “portfolio” high schools. These weights reflect objective criteria that can be applied evenly across all NYC schools, support schools with students with the greatest needs, and provide transparency in the levels of funding available to all schools.

Currently, every school creates its own educational strategies within a context of accountability for the performance of its students. The school’s budget reflects decisions of the SLT (composed of administrators, teachers, and parents) within the context of state and federal...
mandates, collective bargaining agreements, and the Chancellor’s initiatives. Performance-driven budgeting (PDB) decentralizes the fiscal decision-making process by enabling Principals, teachers, other staff, parents, and community members to implement the goals outlined in their schools’ Comprehensive Education Plans. Galaxy 2000, a software tool, was developed from the experiences and recommendations of school and district personnel to carry out the principles of PDB.

Once the MSAP grant has expired, schools have the flexibility under PDB to absorb positions and other expenditures that are critical to sustaining the magnet program, should this be the decision of the SLT. It is our goal that the MSAP grant will serve as a lever for the strategic realignment of fiscal, technological, and human resources within each school community such that magnet programming can be easily sustained at the conclusion of the funding cycle.

As detailed in the Management Plan, each school is planning to commit significant in-kind personnel and other-than-personnel resources to promote the development of whole-school magnet programs. Funding for these come from federal, state, and local funding sources that typically have been awarded on an annual basis and may be expected to continue. However, it should be noted that in some cases, federal, state, and local funds for education programs are not guaranteed from year to year and are subject to discontinuation or reductions. Provided in Table 9 is an overview of the multiple funding streams coming from city, state, and federal sources into the five proposed magnet schools and how these resources are aligned to the MSAP objectives.

Table 9. Sources of Funding for D27-29 Magnet Schools

<table>
<thead>
<tr>
<th>Funding Source</th>
<th>Purpose</th>
<th>Alignment to MSAP Objectives</th>
</tr>
</thead>
<tbody>
<tr>
<td>PR/Award # U165A160013</td>
<td>Page 105</td>
<td>88</td>
</tr>
<tr>
<td>Funding Source</td>
<td>Purpose</td>
<td>Alignment to MSAP Objectives</td>
</tr>
<tr>
<td>---------------</td>
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<td>-----------------------------</td>
</tr>
<tr>
<td>Attendance Improvement Drop-out Prevention (NYSED)</td>
<td>To improve school attendance rates and reduce dropout rates</td>
<td>Student Achievement</td>
</tr>
<tr>
<td>IDEA (USDOE)</td>
<td>To ensure that students with disabilities receive the early intervention, special education, and related services that they are entitled to</td>
<td>Equity of Access</td>
</tr>
<tr>
<td>Title I (USDOE)</td>
<td>To ensure that all children have a fair, equal, and significant opportunity to obtain a high-quality education and to reach, at a minimum, proficiency on state academic achievement standards and assessments</td>
<td>Equity of Access, Student Achievement, Building Capacity</td>
</tr>
<tr>
<td>Title IIA, B (USDOE, NYSED)</td>
<td>To improve teacher quality through PD</td>
<td>Building Capacity</td>
</tr>
<tr>
<td>Title III (USDOE)</td>
<td>To expand the capacity of schools to serve low-income students by providing funds to improve and strengthen their academic quality, institutional management, and fiscal stability</td>
<td>Equity of Access, Building Capacity</td>
</tr>
<tr>
<td>State</td>
<td>To expand school and classroom libraries and provide</td>
<td>Student</td>
</tr>
</tbody>
</table>
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<table>
<thead>
<tr>
<th>Funding Source</th>
<th>Purpose</th>
<th>Alignment to MSAP Objectives</th>
</tr>
</thead>
<tbody>
<tr>
<td>Legislative Grants</td>
<td>instructional materials</td>
<td>Achievement</td>
</tr>
<tr>
<td>21st Century Community Learning Centers (NYSED)</td>
<td>To establish community learning centers that provide academic enrichment opportunities during nonschool hours for children, particularly students who attend high-poverty and low-performing schools</td>
<td>Equity of Access, Student Achievement</td>
</tr>
</tbody>
</table>

(3) The Secretary considers the extent to which the training and professional development services to be provided by the proposed project are of sufficient quality, intensity, and duration to lead to improvements in practice among the recipients of those services.

Research on effective teacher PD suggests that training should be intensive, supportive, engaging, content-specific, and aligned with school improvement goals. Intensive PD is often defined as ongoing and for duration of at least 14 hours (Yoon, Garet, Birman, & Jacobson, 2007). A meta-analysis of nine experimental studies of teacher PD found that the duration of a program was positively associated with changes in teacher practice and student learning (Darling-Hammond, Wei, Andree, Richardson, & Orphanos, 2009). In fact, one study found that mastery of new teaching skills requires, on average, a minimum of 20 instances of practice (Joyce & Showers, 2002).

PD strategies that provide job-embedded support through coaching are highly effective in...
providing opportunities for teachers to implement and master new skills (Knight & Cornet, 2007; Truesdale, 2003). Furthermore, expert demonstration of a new skill through modeling has proven to be an effective technique for teacher learning (Desimone, Porter, Garet, & Yoon, 2002; Snow-Renner & Lauer, 2005). It is equally important that teacher PD be highly engaging and applicable to instruction—for example, by employing varied approaches such as reading, role playing, classroom observations, and discussions—to help teachers see and make direct connections to their own teaching practices (Garet, Porter, Desimone, Birman, & Yoon, 2001; Yoon, Garet, Birman, & Jacobson, 2007).

Research also suggests that teachers benefit more from PD that is directly tied to discipline-specific concepts that they can easily apply in their own classrooms (Darling-Hammond, Wei, Andree, Richardson, & Orphanos, 2009), and that discipline-specific PD has been shown to have strong positive impacts on student learning (Blank, de las Alas, & Smith, 2007). Lastly, PD has been shown to be more effective in improving teachers’ knowledge and skills when it is integrated into a wider set of opportunities for teacher learning and development (Garet, Porter, Desimone, Birman, & Yoon, 2001).

**NYC Commitment to Talent Development**

As part of NYC’s strong commitment to developing teacher talent, the city is implementing *Advance*, a system of teacher evaluation and development. The system was designed to provide teachers with both accurate feedback on their performance and the support necessary to improve their practice, with the goal of improving student outcomes to ensure all students graduate college- and career-ready. Though *Advance* was formally established on June 1, 2013, in alignment with the NYS Education Department’s education law 3012-c on teacher and school leader performance reviews, its design was informed by three years of pilot work in NYC’s
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schools. Advance uses multiple measures to provide teachers, school leaders, and families with a more accurate understanding of teacher effectiveness than ever before. Through Advance, all teachers receive an assessment of their practice using Charlotte Danielson’s 2013 Framework for Teaching; multiple classroom observations by their Principal or other administrator; review of up to eight artifacts or documents demonstrating their efforts to plan and prepare instruction and participate in their professional community; feedback on all observations and artifacts of teacher practice; and, for teachers in grades 3–12, student feedback via the Advance Student Survey.

School support systems in place throughout the NYCDOE will be used for PD to increase student achievement. Schools will receive PD and transactional supports from their Borough Field Support Centers (BFSCs) across a number of areas, including the following:

- teaching and learning—instructional practices, academic policy
- business services—budget, human resources procurement, payroll
- operations—school foods, transportation, facilities
- student services—guidance, school climate, crisis/safety, health and wellness
- special education—instructional practices, implementation of Shared Path to Success
- ELLs—instructional practices, compliance, program development

Comprehensive Approach to Magnet School Professional Development

The proposed D27-29 magnet schools will need to provide a concentrated program of PD for teachers and school leaders to prepare them for effectively meeting the student achievement needs of their magnet students. Research studies have underscored the fact that, due to the array of educational, social, and cultural challenges confronting magnet schools, PD is of paramount importance (Ben-Ari & Strier, 2010). In fact, studies have found that student diversity often comes as a challenge for the teaching workforce, which is largely women and White. Many
teachers do not have experience working or living in diverse environments, which makes it difficult for them to help prepare students for working with diverse groups (Robinson & Clardy, 2011).

NYCDOE and D27-29 are committed to identifying effective and innovative methods of delivering customized PD and support services to staff in order to better enable them to develop and implement high-quality instructional programs. As outlined in the performance measures in the Quality of Project Evaluation, each school will provide 50 hours or more of magnet-related PD to at least 25% of instructional staff and school leaders in Year 1 of the grant, 50% in Year 2, and 100% by the end of the grant period.

D27-29 will provide ample means for the staff of the magnet schools to acquire the knowledge and skills needed to design, implement, and sustain innovative educational methods and practices. These include on-site support from the MSAP-funded Project Director, Curriculum Specialist, Outreach and Technology Coordinator, and the school-based Resource Specialists. In addition, the District will collaborate with colleges and universities and CBOs and will offer district-wide institutes for Principals, staff developers, teachers, and other members of the school community.

**District-Level Professional Development Initiatives**

The PD plan for the D27-29 magnet initiative will provide experiences that are of sufficient quality, intensity, and duration to lead to improvements in teacher practice. In order to support the transformation of teaching and learning across the five magnet schools, D27-29 will provide intensive PD to school leaders, MSAP-funded staff, classroom teachers, and other support staff in each school. The training will focus on evidence-based instructional strategies that will equip teachers with knowledge and skills to conduct inquiry-based instruction, develop and implement
interdisciplinary units, and integrate problem-based learning into learner-centered environments. D27-29 will develop strong and ongoing partnerships with well-respected and qualified organizations, including Education Closet, Buck Institute, and OMNiLEARN, whose staff development programs have proven effective based on practice and research (see narrative response to Competitive Preference Priority 5 for a description of how the proposed PD model meets the Evidence of Promise standard).

For the five magnet schools, Education Closet will provide a three-tiered training model over the course of the grant using STEAM as a core strategy for student success in academic achievement. This three-tiered model includes staff development, implementation, and fostering community connections to create a self-sustaining STEAM model. In the first year of the grant, Education Closet will provide intensive, hands-on teacher PD in what STEAM is, a workshop/studio with hands-on strategies, study of weaving together STEAM and Common Core, curriculum and assessment mapping, and lesson writing. It will also cover how to assess STEAM lessons, when it is appropriate to use STEAM, and how to effectively work with teaching artists and community members to support STEAM learning. Second, it will provide coaching and supplemental support for teaching teams through a virtual training platform, The Learning Studios, which all teachers will have access to for all three years of the grant. This platform includes online classes, weekly live online question-and-answer sessions, two online conferences per year, and access to a comprehensive library of templates and resources. Third, Education Closet will collaborate with school and district leaders and magnet specialists on how to support the needs of their staff and on developing schema maps with teachers. Finally, it will offer basic co-development of a beginning group of partners and artists-in-residence to cultivate community support.
In the second year of the program, **Education Closet** will provide training and supports that build upon the first tier and move into implementation with students. Services will include in-person training, co-teaching, and job-embedded coaching for teachers; continued, ongoing collaboration with leadership on targeted PD needs; resources for supporting students through problem-based learning; and continuing support for strengthening parent and community involvement in STEAM integration. In Year 3, staff development supports will focus on sustainability and include assistance in shifting the capacity for extension over to teachers and leaders in the school.

The **Buck Institute for Education** (BIE) will support the D27-29 schools in implementing PBL through staff development on designing, assessing, and managing projects that engage and motivate students. BIE will provide teachers at the five schools with training workshops and job-embedded coaching and modeling to support the schoolwide implementation of PBL.

**OMNiLEARN** will provide hands-on, project-based science learning to students at the five D27-29 schools and will also be supporting the program through on-site PD. At the outset of the program, OMNiLEARN will meet with district and school leaders and magnet-funded staff to customize content based on curricula and performance levels. It will then provide teachers with hands-on science workshops to boost teacher literacy, proficiency, and confidence in using science as a hook to teach math and ELA skills. During these workshops, teachers will work with new equipment and experience the labs from a student’s perspective, and be trained on OMNiLEARN’s Math and Reading Investigations (MRIs) and assessment tools. MRIs are teacher resources designed to integrate state math and ELA performance indicators into the lab. The assessment tools give teachers a concrete means with which to evaluate their students. By the end of the day-long workshops, teachers will be comfortable with the content, vocabulary,
and equipment and will begin to visualize conducting the labs in their classrooms.

Staff development will also be provided through the in-class labs, which were described earlier. According to OMNiLEARN, one of the primary goals of the in-class lab services is to give teachers a powerful, experiential PD opportunity. Having teachers learn the labs alongside their students benefits teachers in three critical areas: (1) continuously updated content literacy and equipment proficiency, (2) classroom modeling, and (3) small-group experience.

**School-Level Professional Development**

Each magnet school will implement a coordinated staff development effort for all instructional staff and school leaders to directly support the implementation of the magnet program. The Magnet Resource Specialists will participate in all PD activities so they can then provide in-classroom support to the classroom teachers and other instructional staff in their buildings. School administrators will monitor the impact of training activities on staff knowledge and skills in order to evaluate their effectiveness. Furthermore, teachers will be encouraged to transmit their knowledge to their peers through turnkey training, co-teaching, and modeling activities in order to build staff capacity in these areas in subsequent years. The school-based PD plans were presented in the magnet school descriptions that preceded this section.

**Continuous support structures for PD** will provide opportunities for our teachers to gain exposure to new concepts from educational experts; however, we also understand that to truly have an impact on teaching and learning, PD needs to be an ongoing, job-embedded process. As such, the magnet initiative includes structures to foster continuous learning through support provided by the MSAP-funded Project Curriculum Specialist and magnet Resource Specialists (whose roles are described in the Management Plan and Quality of Personnel) and through effective use of school-based PLCs. The Project Curriculum Specialist will provide ongoing
assistance to the magnet staff across each school to implement PD plans that provide support for classroom teachers. The Magnet Resource Specialists will be responsible for providing the support through coaching, co-teaching, and lesson modeling, as well as identifying instructional resources and assisting with curriculum development. The Magnet Resource Specialists will also help facilitate conversations in grade-level and subject-level PLCs about implementation of magnet curricula and instructional practices highlighted through magnet staff development. During the PLCs, teachers will share best practices, lessons, and curriculum connections that are inquiry- and problem-based in order to create a collection of resources for teachers. The embedded PD will expand teachers’ exposure to concepts provided during training and create a culture that fully supports the transformation of teaching and learning.

With the comprehensive plan for PD, we will expose all MSAP-funded staff, school leaders, and instructional staff in each of five magnet schools to a minimum of 50 hours of PD in inquiry-based instruction, problem-based learning, and interdisciplinary approaches. As a result, we are confident that teachers and staff will demonstrate increased collaboration in developing and implementing interdisciplinary instructional units of study and improved knowledge, skills, and use of inquiry and problem-based instruction (as outlined in Quality of Project Evaluation).

(4) The Secretary considers the extent to which the proposed project is supported by strong theory.

The D27-29 magnet initiative is designed with a strong theory of change that is fully aligned with the NYCDOE’s instructional goals and frameworks and will serve to advance the schools’ missions to increase equity by raising the academic bar for all students and decreasing achievement gaps. The theory of change states that by transforming teaching and learning in five new whole-school magnet programs through innovative, inquiry-based programs of
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instruction with a thematic focus, D27-29 will increase equity of access to programs of choice, help improve academic achievement and other outcomes for all students and staff, and reduce minority group isolation in the magnet schools.

To support the theory of change, D27-29 developed logic models for the initiative (district level) and each of the target magnet schools. This section presents the district logic model and one school-level logic model. The other school-level logic models are included in the attachments.
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Context:
- NYCDOE commitment to excellence (outlined in Framework for Great Schools and STEM Framework)
- NYC and NYCDOE commitment to equity

NYCDOE Offices
- State and Federal Education Policy
- Enrollment

District Leadership (in-kind)
- Superintendent
- Community Education Councils (CECs)

School Leaders and Staff
- MSAP Grant
  - Funded staff
  - Supplies/Equipment
  - Contractual services
  - External evaluation

Community Input
- Continuous improvement Working Group
- School-level Magnet Advisory Councils

Need:
- Minority group isolation of Hispanic and African American students persists in district schools
- Demand for innovative instructional models to support implementation of NYCDOE STEM Framework
- Achievement gaps remain across the districts

Resources/Inputs

Program Activities
- Design and implement magnet programs
  - Inquiry-based thematic curricula
  - PBL approach to learning
  - Unique thematic enrichment activities
- Create and implement professional development plan
- Establish and expand partnerships to support magnet programs
- Implement marketing and outreach plan
- Conduct community and family engagement
- Conduct formative and summative evaluation

Program Outputs
- Interdisciplinary, PBL thematic units of study for all grade levels
- Extensive staff training in PBL and STEM/STEAM
- Authentic experiences in STEM and magnet theme (during school and out-of-school time)
- Applications to magnets and race-neutral lottery process
- Data and findings to inform program improvement

MSAP Outcomes
- Increased student achievement
- Increased student proficiency in non-cognitive skills
- Increased staff knowledge and skills in innovative teaching strategies
- Increased student proficiency in applied learning skills
- Increased interest and demand from out-of-zone families
- Reduced minority group isolation in magnet schools

Indicators of Systemic Change
- Increased student readiness for and success in high school, college, and careers
- High-demand, self-sustaining STEM/STEAM magnet programs
- Effective implementation of inquiry-based, learner-centered instruction
- Increased equity of access to high-quality programs
- Increased racial and ethnic diversity across CSD 27-29
- Increased collaboration with community partners
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Context:
- NYCDOE commitment to excellence (outlined in Framework for Great Schools and STEM Framework)
- NYC and NYCDOE commitment to equity

Need:
- Proportion of African American students at PS 52 exceeds district average by 23.7 percentage points
- Achievement levels in reading and math at PS 52 lag district averages by 45 and 14 percentage points

Resources/Inputs
- NYCDOE Offices
  - State and Federal Education Policy
  - Enrollment
- District Leadership (In-kind)
  - Superintendent
  - Community Education Councils (CECs)
- School Leaders and Staff
- MSAP Grant
  - Funded staff
  - Supplies/Equipment
  - Contractual services
  - External evaluation
- Community Input
  - PA/PTA and SLT
  - Magnet Advisory Council

Program Activities
- Develop and implement innovation, exploration, and engineering magnet theme
  - The school will develop thematic, cross-content units of study that will immerse students in innovation, exploration, and engineering
- Provide PD on STEM, project-based learning, and cultural competency
- Establish and expand partnerships with local science agencies
- Implement marketing and outreach plan
- Conduct community and family engagement

Program Outputs
- Interdisciplinary, PBL thematic units of study for all grade levels
- Authentic experiences in innovation, exploration, and engineering (during school and out-of-school time)
- Extensive staff training
  - Workshops/PD
  - Coaching and mentoring
  - Curriculum development support
- Applications from out-of-zone students
- Family and community participation in magnet events and STEM Fair

Magnet Schools Assistance Program Grant Application (2016–19)
School Logic Model: PS 52 — Magnet School for Innovation, Exploration, and Engineering

MSAP Outcomes
- Improved student achievement
- Increased student proficiency in non-cognitive skills
- Increased student proficiency in applied learning skills
- Increased staff knowledge and skills in innovative and research-based teaching strategies
- Increased interest and demand from out-of-zone families
- Reduced minority group isolation among African American students
- Increased student readiness for and success in high school, college, and careers
- High-demand, self-sustaining STEM/STEAM magnet programs
- Effective implementation of inquiry-based, learner-centered instruction
- Increased equity of access to high-quality programs
- Increased racial and ethnic diversity across CSD 27-29
- Increased collaboration with community partners

Indicators of Systemic Change
- Increased student readiness for and success in high school, college, and careers
- High-demand, self-sustaining STEM/STEAM magnet programs
- Effective implementation of inquiry-based, learner-centered instruction
- Increased equity of access to high-quality programs
- Increased racial and ethnic diversity across CSD 27-29
- Increased collaboration with community partners
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(C) Quality of the Management Plan (15 points)

The Secretary considers the quality of the management plan for the proposed project.

(1) The adequacy of the management plan to achieve the objectives of the proposed project on time and within budget, including clearly defined responsibilities, timelines, and milestones for accomplishing project tasks

MSAP Project Management Framework

The management plan for the D27-29 Magnet Schools Assistance Program initiative has several core elements that in combination will ensure the success of the project and the attainment of all of the project’s objectives and performance measures:

- a leadership and accountability structure in place within the NYCDOE that fosters innovation but holds all instructional leaders in the school system to rigorous performance standards;
- an efficient staffing and management structure for the MSAP initiative within and across D27-29 magnet schools, including reporting and accountability mechanisms to ensure the timely, effective, and efficient implementation of all key MSAP activities;
- a detailed project implementation plan to achieve the project’s objectives and performance measures, supported by a reasonable and cost-effective budget and leveraged in-kind resources designed to promote capacity building and sustainability of the project beyond the federal funding period; and
- a continuous improvement process that engages MSAP stakeholders in ongoing feedback, assessment, and refinement of project activities.

A detailed discussion of the four pillars of the project management framework is provided in the following.
Leadership and Accountability Structure

Districts 27 and 29 are two of the 32 community school districts under the aegis of the NYCDOE. Each is headed by a Community Superintendent who performs the statutory duties for the schools within the District’s geographic jurisdiction, including appointing, supervising, and rating Principals and approving school budgets. The Superintendent also serves as the liaison to the Community Education Councils (CECs), which replaced the Community School Boards in July 2003. The function of the CEC is primarily advisory in nature, providing critical input on what the community views as priorities and ensuring that parents have a voice in how the NYC public schools are run.

In their leadership and supervisory roles for the two districts that are partnering on this application, the Superintendents will provide guidance and support to the MSAP initiative and will make available to the Magnet Project Director and the magnet schools under their jurisdiction the support of their teams. These include the following constellation of personnel:

- The Principal Leadership Facilitator serves as the Superintendent’s primary designee.
- The Field Support Liaison acts as an intermediary between the Superintendent’s office and the Borough Field Support Center (BFSC). The Field Support Liaison supports schools with any concerns regarding BFSC services and provides guidance on streamlining supports.
- The Family Support Coordinator serves as the point of contact for family concerns.
- The Borough and District Family Advocate works closely with the school community, including families, SLTs, and PAs.
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- The Teacher Development and Evaluation Coach ensures that school leaders have the information and support they need to meet the expectations of the Framework for Great Schools through effective implementation of Advance and CCLS.
- The Director of School Renewal supervises the implementation of the School Renewal Plan and coordination of supports in districts with Renewal Schools.
- The District Director of Early Childhood Education supports and manages the district-wide implementation of Pre-K programs in district schools. Early Childhood Directors report directly to District Superintendents, and provide direct oversight of district Pre-K centers, where applicable.

The MSAP Project Director will work under the direct supervision of the Senior Advisor to the Chancellor within the NYCDOE Office of State and Federal Education Policy to oversee the programmatic and administrative management of the magnet initiative. The Office of State and Federal Education Policy is housed within the Office of the Senior Deputy Chancellor Dorita Gibson, who oversees the Superintendents and the implementation of various citywide initiatives, including the Equity and Access Initiatives and Policy. The NYCDOE Office of Enrollment, under the Deputy Chancellor for Strategy and Policy, will interface with the MSAP Project Director in matters of student selection and placement.

**Project Staffing and Management Structure**

Summarized in Table 10 is the proposed staffing structure for the D27-29 MSAP initiative, followed by a detailed description of the roles and responsibilities of these key staff. We believe that this staffing plan provides the optimal infrastructure at both the district and school levels to support the attainment of the MSAP initiative’s ambitious objectives and outcomes.
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Table 10. MSAP-Funded Staff

<table>
<thead>
<tr>
<th>Personnel</th>
<th>Number</th>
<th>Level of Effort</th>
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<tbody>
<tr>
<td><strong>District-Level Staffing</strong></td>
<td></td>
<td></td>
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<tr>
<td>Project Director</td>
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<td>1.0 FTE</td>
</tr>
<tr>
<td>Project Curriculum Specialist</td>
<td>1</td>
<td>1.0 FTE</td>
</tr>
<tr>
<td>Project Outreach and Technology Coordinator</td>
<td>1</td>
<td>1.0 FTE</td>
</tr>
<tr>
<td>Project Secretary</td>
<td>1</td>
<td>0.5 FTE</td>
</tr>
<tr>
<td><strong>School-Based Staffing</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Magnet Site Coordinators</td>
<td>5</td>
<td>1.0 FTE</td>
</tr>
<tr>
<td>Resource Specialists</td>
<td>5</td>
<td>1.0 FTE</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>.5 FTE</td>
</tr>
</tbody>
</table>

**District-Level Staffing.** The MSAP Project Director will work directly with the magnet staff and planning teams at each school to ensure that the magnet programs are developed and implemented in alignment with the purposes of the MSAP statute and the approved grant application and that they are using best practices that will ensure that the goals and performance measures of the MSAP initiative are met. In this role, the duties of the MSAP Project Director will include the following:

- recruiting, hiring, and supervising the district magnet staff;
- coordinating regular meetings with magnet school staff and collaborating partners to disseminate pertinent information regarding MSAP guidelines and build a professional
support network among school-based staff with similar responsibilities and interests;

- providing workshops and organizing conferences for school and district leaders, BFSC representatives, and teachers on the latest evidence-based practices related to NYS P-12 CCLS, curriculum mapping, technology and arts integration, PBL, cultural competence, and other strategies being piloted by the magnet school programs;

- developing cohorts of teacher leaders, including recruitment teams and curriculum design teams, to ensure the sustainability of the magnet programs well beyond the funding period;

- coordinating district-wide and school-based staff training activities, including those facilitated by outside agencies;

- providing technical assistance to magnet school leadership on all outreach and recruitment efforts, including organizing multimedia advertising campaigns, developing promotional materials (e.g., brochures, press releases), and planning events (e.g., open houses, school tours);

- monitoring the applicant pool and enrollment data for the magnet and feeder schools;

- editing district-wide magnet publications, collaborating on the magnet website, and using social media outlets to support the Districts’ marketing efforts;

- developing positive community support for the Districts’ magnet programs through public presentations at widely advertised parent workshops, CEC meetings, and other community forums, and supporting the school-based Parent Coordinators in their efforts to increase parent involvement;

- serving as the primary liaison to the USDOE MSAP Program Officer and ensuring compliance with all requirements laid out by the USDOE and the Office for Civil Rights;
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- monitoring all project expenditures and providing school staff with technical assistance in meeting fiscal and budgetary guidelines;
- providing guidance and support to the school-level Magnet Advisory Councils (MACs; described in Section 2);
- overseeing a rigorous and ongoing process of continuous improvement, which will entail convening regular meetings with magnet Principals, parents, teachers, students, and project partners to solicit and share feedback on program activities; and
- serving as a liaison to the project evaluator, assisting schools in the collection of required program data and documentation; providing feedback to the evaluator on the evaluation design, instrument development activities, and data collection procedures; preparing required reports; and disseminating results to key stakeholders.

The MSAP grant will be used to support a full-time **MSAP Curriculum Specialist** who will work under the direction of the Project Director. The Curriculum Specialist will be responsible for working with school teams to facilitate theme and systemic reform implementation in each magnet program and ensure that all magnet curricula are fully aligned with NYS P-12 CCLS. In this role, the Curriculum Specialist will perform the following responsibilities:

- collaborate with the schools’ curriculum and PD teams on the development and alignment of new magnet theme curricula and train staff in their use;
- serve as a liaison with outside consultants providing on-site training for school staff;
- create and maintain partnerships with CBOs and other agencies participating in the project and offering services to families;
- schedule, develop, and participate in PD activities in collaboration with the Magnet Resource Specialists;
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- facilitate program development activities related to the magnet themes, reform models, innovative instructional strategies, standards alignment, and program implementation and adjustment; and

- facilitate mapping theme integration and curriculum development activities.

The MSAP Outreach and Technology Coordinator will be responsible for planning, coordinating, and implementing a comprehensive magnet outreach program using technology and multimedia resources. This staff member will also support technology integration at the magnet schools, engaging in PD and training activities that incorporate research-based instructional practices and new technology tools into the magnet program. Additionally, the Outreach and Technology Coordinator will work with the Project Director, Curriculum Specialist, school teams, MACs, and others to enhance the effectiveness and impact of the school-based magnet programs as well as the interdistrict initiative as a whole. The specific roles and responsibilities of the Outreach and Technology Coordinator are these:

- developing magnet materials, products, and technology tools such as websites, flyers, brochures, banners, advertisements, and social media items for outreach and recruitment;

- collaborating with the Project Director to develop, implement, and monitor an interdistrict plan for program promotion and outreach and with the Site Coordinators on school-specific plans;

- participating in local, regional, and national conferences to identify best practices in magnet school promotion and the use of instructional technology to support magnet program implementation;

- providing PD and coaching to magnet school staff that results in increased capacity to infuse technology tools, applications, and resources into the thematic curricula and to
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foster communication and collaboration among schools, parents, and community partners; and

• assisting the Project Director, Curriculum Specialist, and other district- and school-based staff with other aspects of the magnet program, including documentation, evaluation, and compliance monitoring.

Finally, the part-time **MSAP Project Secretary** will support the Project Director on projects related to recruitment, student selection, and preparation of MSAP budgets. The Secretary will maintain all administrative and data files to support program implementation, fiscal monitoring, and the program evaluation. The Secretary will be responsible for communicating with program stakeholders, including families, external partners, and the USDOE, and for assisting the Project Director in scheduling and convening project staff meetings, staff development sessions, and marketing events.

**School-Level Staffing.** The **magnet school Principals** will be responsible for overseeing the implementation of the magnet programs in their buildings and ensuring that the magnet school planning teams, the SLTs, and the MACs communicate regularly. They will also supervise all teaching staff working either directly or indirectly on magnet-related programs and activities, including the Site Coordinators and Resource Specialists, whose responsibilities are described later in this section, during and beyond the regular school day and year.

At each school, the magnet grant will pay for the salary of a **full-time Magnet Site Coordinator**, who will have major responsibility for all administrative aspects of the magnet program, including budget management, data collection activities, outreach and recruitment, and family and community engagement. The Site Coordinator will be responsible for sharing information about the magnet program with members of the school community through the
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development and distribution of magnet program brochures and other outreach materials, speaking with parents and community members, and fostering partnerships to support the program.

In addition, the magnet grant will pay for the salary of at least one full-time Resource Specialist at each school, who will have major responsibility for planning, implementing, and refining the magnet instructional program and coordinating all school-based, magnet-related PD initiatives. Although their roles will be customized to the curriculum and instructional needs at each magnet school, in general, the Resource Specialists will be responsible for the following activities:

- working with regular classroom teachers to develop or modify magnet theme-related enrichment materials;
- working with the MSAP Curriculum Specialist to coordinate development of magnet program curricular units and materials;
- assisting the Project Director in providing the teacher training necessary to implement the newly created curricular materials,
- designing and providing theme-based instruction;
- participating in the school’s magnet planning committee and MAC;
- meeting regularly with the Project Director to coordinate curriculum development efforts; and
- participating in staff development workshops specific to their core subject area and in magnet-related parent involvement activities.

Throughout the three-year grant, the Project Director will convene group meetings with the Site Coordinators and Teacher Specialists from the five schools on a bimonthly basis. These
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Meetings will be held on a rotating basis at the various magnet schools, which will give staff from across the magnet schools an opportunity to experience their colleagues’ programs firsthand. Meeting topics will include, for example, effective strategies for outreach and recruitment, theme-based curriculum development and implementation, resources for PD, successes and challenges of working with outside partners, strategies for engaging hard-to-reach and non-English-speaking parents, and evaluation activities and findings. At each meeting, the Site Coordinators will provide an update of their schools’ progress in implementing the various components of the program, share effective strategies, and brainstorm solutions to implementation challenges encountered. Other meeting participants will include the local evaluators, magnet school Principals, and staff members from the BFSCs as needed.

At the school level, in addition to the Principals, D27-29 will provide the services of classroom teachers, professional support staff, parent coordinators, and paraprofessionals at no cost to the grant to support implementation.

- Classroom teachers will be responsible for providing magnet school students with theme-based instruction, and the out-of-classroom teachers, such as cluster teachers and school library media specialists, will provide direct instruction to students in the areas of the magnet themes at their schools.

- To ensure that students and their families are able to fully participate in and benefit from the magnet school programs, school-based support staff (e.g., guidance counselors, social workers) will offer access to a wide range of social services designed to meet students’ health, social, and emotional needs.

- Parent coordinators will play a key role in implementing parent outreach activities and representing the needs and interests of parents on the schools’ magnet planning teams and
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MACs.

- Paraprofessionals will be responsible for assisting the classroom teachers in providing magnet school students with theme-based instruction.

In addition to these personnel resources, each school has existing equipment, supplies, and facilities that will be leveraged to support the implementation of the magnet programs in their buildings. Information about these resources was provided in the individual school descriptions in the Quality of Project Design section.

**Project Implementation Plan**

D27-29 seeks to achieve four overarching project-level objectives with the MSAP initiative. These objectives are directly aligned with the purposes of the MSAP and the Government Performance and Results Act (GPRA) measures that have been established by the USDOE for the program. This section lists the four grant objectives (and how each is aligned with the program purposes) along with a summary of the magnet program activities that will be carried out (a detailed description of the activities was provided in the Desegregation and Quality of Project Design sections). Following this discussion is a detailed project implementation timeline that includes key activities, responsible parties, and target dates by project objective.

**Project Objective 1: Reduce minority group isolation among Hispanic, African American, or Asian students in the proposed magnet schools.** This objective is aligned with the purpose of the MSAP to support the elimination, reduction, or prevention of minority group isolation (MGI) in elementary and secondary schools with substantial proportions of minority students. All five proposed magnet schools meet the NYCDOE’s definition of MGI. Two of the D27-29 schools (PS 254 and PS 316) have MGI that will be reduced among Hispanic students, in two schools (PS 52 and PS 195), MGI will be reduced among African American students, and in one
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school (PS 62), MGI will be reduced among Asian students. The MSAP grant will help reduce the isolation of these racial groups by attracting a new and more racially diverse population of students to the schools through the implementation of a multifaceted approach:

- creation of unique magnet themes that will be attractive to students of diverse racial, ethnic, and socioeconomic backgrounds and academic needs and interests and that are not available to other public schools in the Districts;
- a strategic, targeted, and aggressive outreach and recruitment plan to be carried out by magnet program staff and by each magnet school in its local and surrounding neighborhoods; and
- a race-neutral student selection process that will ensure equitable access for all students to the magnet programs.

**Project Objective 2: Ensure that all students attending the magnet schools meet challenging academic standards and are on track to be college- and career-ready.** Objective 2 supports the MSAP purpose for the development and implementation of magnet school programs that will assist local educational agencies (LEAs) in achieving systemic reforms and providing all students the opportunity to meet challenging state academic content and achievement standards.

The five proposed magnet schools have not yet been successful in helping all students meet state learning standards. As of spring 2015, in each of the five proposed magnet schools, less than half of students met or exceeded the state learning standards in ELA, and fewer than 70% met or exceeded the standards in math. Additionally, two of the five schools had ELA and/or math proficiency rates lower than the district averages.

The magnet programs will provide new opportunities for all students to meet and exceed the learning standards by providing a rigorous and enriched theme-based magnet curriculum that
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will be integrated across core subject areas. The magnet curricula are designed to support, deepen, and expand the curricular frameworks that have been put into place citywide (described in the Quality of Project Design section) and will be fully aligned with NYS P-12 CCLS. In addition, plans for the D27-29 magnet programs will supplement the instructional programs at the schools by incorporating innovative, research-based, and evidence-based instructional approaches to help teachers better address the learning needs of all students, including students with special needs, such as ELLs and students with disabilities.

Project Objective 3: Ensure that all students attending the magnet schools benefit from the magnet’s educational offerings and have equal opportunities to gain magnet theme-specific value-added skills and knowledge. This objective aligns with two purposes of the MSAP: to ensure that all students enrolled in magnet school programs have equitable access to high-quality education that will enable them to succeed academically and continue with postsecondary education or productive employment and to provide courses of instruction that will substantially strengthen the knowledge of academic subjects and the attainment of tangible and marketable vocational, technological, and professional skills.

The magnet schools will provide whole-school programs that will expose all students to theme-based curriculum and enrichment opportunities. The magnet planning teams understand that the needs and interests of students can vary drastically depending upon the opportunities and experiences they have been awarded prior to enrolling in the magnet schools. Therefore, the programs will align with other services in the schools and across the two Districts to address the needs of students, including learning, language, economic, behavioral, and other needs (see Section A3 for a discussion of programs and services to ensure equal access and treatment). The instructional staff who provide services to students with disabilities and ELLs at the proposed
magnets will participate in magnet curriculum development to ensure that instructional units and materials are designed to meet the learning needs of all students.

Furthermore, through a wide array of district- and school-based partnerships, the magnet program designs incorporate opportunities for students to go beyond the walls of their schools and boundaries of their communities to experience the real-world applications of what they are exploring in school (see the Quality of Project Design section and Competitive Preference Priority—STEM narrative). These enrichment activities, which will be scheduled as part of the regular school day as well as in out-of-school-time programs (including after school and during weekends and summers), will help enhance students’ content knowledge, build their repertoire of 21st-century skills (e.g., communication, collaboration, persistence, digital literacy), and serve to close the pernicious opportunity gap that exists between high-poverty, minority group–isolated schools and those serving more advantaged peers.

**Project Objective 4: Build the capacity within the magnet schools to provide rigorous, theme-based instructional programs that will help promote choice and diversity in the D27-29 schools.** Objective 4 supports two purposes of the MSAP: *improving the capacity of LEAs, including through PD, to continue operating magnet schools at high performance after federal funding for the magnet schools is terminated* and *encouraging the development and design of innovative educational methods and practices that promote diversity and increase choices in public schools.*

D27-29 has incorporated several mechanisms into the design of each magnet school program to increase the capacity of the school leaders, staff, and community to implement high-quality magnet programs and to sustain them after the federal funding terminates. D27-29 realizes that the MSAP grant provides seed money to develop magnet programs and that these mechanisms
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must be developed and implemented from Day 1 of the grant in order to prepare the schools with the resources and knowledge to implement and expand the programs after the federal funding period. By creating sustainable magnet programs, D27-29 will increase choice and promote diversity for all students.

The NYCDOE MSAP planning team, in collaboration with the proposed magnet schools, has developed a strong plan of professional and curriculum development to enhance the knowledge and skills of all instructional staff and school leaders in theme-based topics and evidence-based instructional approaches and to develop rigorous magnet curricula and lessons that will be provided to all students (see the Quality of Project Design and Competitive Preference Priority—STEM narrative for detailed descriptions of curriculum and PD activities). District-level efforts to support curriculum and PD will include annual curriculum planning institutes, monthly study groups centered around key research of relevance to the focus of the magnet schools, and ongoing venues to facilitate knowledge sharing across the participating schools and districts. School-level partnerships with outside vendors, including institutions of higher education, arts and cultural organizations, local businesses, and other CBOs, will offer training and technical assistance in the specific themes and related instructional strategies being delivered by each school. In addition, all schools will use the mechanisms of PLCs to share best practices with colleagues in their schools and offer peer mentoring.

Continuous Improvement Process

The D27-29 continuous improvement for the MSAP grant will be implemented as a six-step process around a framework of Plan, Do, Check, Act. The Plan, Do, Check, Act framework was developed by W. Edwards Deming as a business model that is frequently applied in education. The six parts of D27-29’s continuous improvement process are (1) goal setting, (2)
implementation and testing of program activities, (3) timely and regular feedback, (4) measuring and monitoring quality of investments, (5) strategies to publicly share information, and (6) opportunities for ongoing corrections.

The MSAP Project Director will convene a Continuous Improvement Working Group (CIWG) comprising members of the district magnet team, representatives from the magnet schools (including funded and nonfunded staff), and the external evaluation team to guide and modify the process for continuous improvement as the project develops. The Continuous Improvement Working Group will provide high-level direction to ensure the successful implementation of the grant, including the process of continuous improvement, and will serve as a sounding board for ideas and solutions to critical issues that arise through implementation. As discussed in the section that follows, the magnet program participants—students, families, teachers, and school leaders—will play an integral and active role in the continuous improvement process to ensure that it provides meaningful and timely information. Furthermore, the project’s external evaluator will conduct a comprehensive formative and summative evaluation of the initiative to provide external feedback on the implementation and effectiveness of program activities (see the Quality of the Evaluation Plan section for a detailed discussion of the evaluation design).

A timeline showing the key activity benchmarks by project objective, target date, and responsibility center is provided in Table 11.
### Table 11. D27-29 MSAP Project Implementation Timeline: Key Activities and Benchmarks by Objective

#### MSAP Objective 1: Reduce or Eliminate Minority Group Isolation

<table>
<thead>
<tr>
<th>Key Activities</th>
<th>Year 1 Benchmarks 10/16–9/17</th>
<th>Year 2 Benchmarks 10/17–9/18</th>
<th>Year 3 Benchmarks 10/18–9/19</th>
<th>Responsible Parties</th>
</tr>
</thead>
<tbody>
<tr>
<td>Create district-wide marketing and outreach campaign that builds on existing DOE frameworks of communications</td>
<td>Develop templates for marketing materials (e.g., flyers, brochures) for customization by magnet schools</td>
<td>Disseminate information on new magnet programs district-wide and build community awareness of and interest in magnet programs</td>
<td>PD, OTC</td>
<td></td>
</tr>
<tr>
<td>Design and conduct school-level targeted and multifaceted outreach campaign to profile the new magnet themes</td>
<td>Develop suite of marketing materials (e.g., flyers, brochures) and establish social media presence for the magnet programs (Facebook, Twitter)</td>
<td>Disseminate promotional materials, build and expand social media presence, conduct marketing in community locations</td>
<td>SC, OTC, P, D</td>
<td></td>
</tr>
<tr>
<td>Implement a fair, equitable, and race-neutral student selection and placement process</td>
<td>Receive applications for new magnets, integrate into DOE enrollment process, and run race-neutral selection process for 2017–18</td>
<td>Increase number and diversity of applications compared with previous year</td>
<td>PD, S, D</td>
<td></td>
</tr>
</tbody>
</table>

#### MSAP Objective 2: Improve Students' College- and Career-Readiness

<table>
<thead>
<tr>
<th>Key Activities</th>
<th>Year 1 Benchmarks 10/16–9/17</th>
<th>Year 2 Benchmarks 10/17–9/18</th>
<th>Year 3 Benchmarks 10/18–9/19</th>
<th>Responsible Parties</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design, implement, and refine thematic curricula</td>
<td>Develop 1 interdisciplinary unit focused on inquiry and PBL per grade per school</td>
<td>Refine Year 1 unit, create 2–3 new interdisciplinary units per grade</td>
<td>Refine Years 1 and 2 units, create additional 2–3 interdisciplinary units per grade</td>
<td>CS, RS, PP</td>
</tr>
<tr>
<td>Incorporate research- and evidence-based instructional strategies aligned to CCLS, NGSS, and NYC curriculum frameworks</td>
<td>Pilot implementation of innovative and effective instructional strategies to support the implementation of the magnet themes in at least half of the grades served by the school</td>
<td>Expand implementation of innovative instructional strategies to all grades served by the school</td>
<td>Schoolwide implementation of innovative instructional strategies in all classes and grades</td>
<td>CS, OTC, RS, P</td>
</tr>
</tbody>
</table>
## MSAP Objective 3: Provide Equal Access to Magnet Program Offerings

### Key Activities

<table>
<thead>
<tr>
<th>Year 1 Benchmarks 10/16–9/17</th>
<th>Year 2 Benchmarks 10/17–9/18</th>
<th>Year 3 Benchmarks 10/18–9/19</th>
<th>Responsible Parties*</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Provide staff development in cultural competence for magnet teachers</td>
<td>• Finalize scope of services to provide PD all magnet schools in culturally responsive teaching, including baseline needs assessment, and begin training</td>
<td>• Provide ongoing consultation in culturally responsive teaching to magnet school staff in all magnet schools</td>
<td>PD, P, PP</td>
</tr>
<tr>
<td>• Adapt thematic curricula and instructional strategies to meet the needs of ELLs</td>
<td>• Modify the 1 interdisciplinary unit focused on inquiry and PBL per grade per school to meet needs of ELLs</td>
<td>• Refine Year 1 unit and 2–3 new interdisciplinary units per grade to meet needs of ELLs</td>
<td>CS, RS, CT, D</td>
</tr>
<tr>
<td>• Adapt thematic curricula and instructional strategies to meet the needs of students with disabilities</td>
<td>• Modify the 1 interdisciplinary unit focused on inquiry and PBL per grade per school to meet needs of SWDs</td>
<td>• Refine Year 1 unit and 2–3 new interdisciplinary units per grade to meet needs of SWDs</td>
<td>CS, RS, CT, D</td>
</tr>
<tr>
<td>• Provide enrichment opportunities within and beyond the regular school day to level the playing field for students attending high-poverty, MGI schools</td>
<td>• Finalize scopes of services with all external partners for curriculum enrichment</td>
<td>• Refine scopes of services based on feedback and evaluation findings</td>
<td>PD, SC, PP</td>
</tr>
<tr>
<td>• Draft magnet PD plan for each school that reflects 50 hours of PD for each magnet program teacher</td>
<td>• Revise PD plan based on feedback and evaluation findings</td>
<td>• Revise PD plan based on feedback and evaluation findings</td>
<td>PD, CS, RS, P, PP</td>
</tr>
</tbody>
</table>

## MSAP Objective 4: Build Capacity to Sustain Magnet Programs

### Key Activities

<table>
<thead>
<tr>
<th>Year 1 Benchmarks 10/16–9/17</th>
<th>Year 2 Benchmarks 10/17–9/18</th>
<th>Year 3 Benchmarks 10/18–9/19</th>
<th>Responsible Parties*</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Develop and implement a rigorous plan of PD for magnet program teachers</td>
<td>• Draft magnet PD plan for each school that reflects 50 hours of PD for each magnet program teacher</td>
<td>• Revise PD plan based on feedback and evaluation findings</td>
<td>PD, CS, RS, P, PP</td>
</tr>
</tbody>
</table>
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<table>
<thead>
<tr>
<th>Conduct school-level processes to share best practices and assess program implementation</th>
<th>Include magnet as agenda item on all SLT, PA meetings</th>
<th>Include magnet as agenda item on all SLT, PA meetings</th>
<th>Include magnet as agenda item on all SLT, PA meetings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Establish MAC to bring diverse perspectives to discussion of program status, challenges, and lessons learned</td>
<td>Convene 3-4 meetings of the MAC to bring diverse perspectives to discussion of program status, challenges, and lessons learned</td>
<td>Convene 3-4 meetings of the MAC to bring diverse perspectives to discussion of program status, challenges, and lessons learned</td>
<td>SC, P, RS, CT, MAC</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Conduct district-level processes to share best practices</th>
<th>Conduct monthly MSAP meetings to discuss magnet theme and implementation of innovative instructional strategies</th>
<th>Conduct monthly MSAP meetings to discuss magnet theme and implementation of innovative instructional strategies</th>
<th>Conduct monthly MSAP meetings to discuss magnet theme and implementation of innovative instructional strategies</th>
</tr>
</thead>
<tbody>
<tr>
<td>Convene bimonthly study groups for magnet school staff</td>
<td>Convene bimonthly study groups for magnet school staff</td>
<td>Convene bimonthly study groups for magnet school staff</td>
<td>PD, OTC</td>
</tr>
<tr>
<td>Expand DOE digital platform for collaboration to include new magnet schools</td>
<td>Expand content of DOE digital platform for collaboration to include materials from all 5 magnet schools</td>
<td>Expand content of DOE digital platform for collaboration to include materials from all 5 magnet schools</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Design and conduct a rigorous continuous improvement process to assess program implementation and inform sustainability</th>
<th>Establish CIWG, convene 2-3 meetings</th>
<th>Convene 4-6 meetings of the CIWG</th>
<th>Convene 4-6 meetings of the CIWG</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>PD, PE</td>
</tr>
</tbody>
</table>

*Responsible parties: PD = Magnet Project Director; CS = Magnet Curriculum Specialist; OTC = Magnet Outreach and Technology Coordinator; S = Magnet Project Secretary; P = Magnet School Principals; SC = Magnet Site Coordinators; RS = Magnet Resource Specialists; CT = Magnet Classroom Teachers; PE = Project Evaluator; CIWG = Continuous Improvement Working Group; MAC = Magnet Advisory Council; PP = project partners; D = Other District staff*
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(2) How the applicant will ensure that a diversity of perspectives are brought to bear in the operation of the proposed project, including those of parents, teachers, the business community, a variety of disciplinary and professional fields, recipients or beneficiaries of services, and others, as appropriate.

Should D27-29 be awarded an MSAP grant, a solid foundation of collaboration, excitement, and momentum that was fostered during the proposal development phase will be leveraged to support the high-quality implementation of the project (highlighted in the Quality of Project Design section). Several mechanisms are built into the project design and management structure that will ensure that a diversity of perspectives are encouraged and incorporated into the ongoing operation and refinement of the magnet project.

Community Education Councils (CECs)

CECs are parent-run deliberative bodies that help to shape educational policies and priorities in their districts. CEC members are parent volunteers who provide hands-on leadership and support for their community’s public elementary and middle schools. Each CEC has 11 voting members, including nine parents and two district residents and/or business owners. The CEC also includes one nonvoting high school senior and elected student leader residing in the district who is appointed by the Community Superintendent. Parents from the D27-29 magnet schools will be encouraged to attend CEC meetings and, if interested, to run for positions on these boards.

School Leadership Teams (SLTs)

SLTs are vehicles for developing school-based educational policies and ensuring that resources are aligned to implement those policies. SLTs assist in the evaluation and assessment of a school’s educational programs and their effects on student achievement. Three members of
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the school community are mandatory members of the SLT: Principal, PA/PTA President, and United Federation of Teachers (UFT) Chapter Leader. The remainder of the team is composed of elected parents and staff members (the SLT must have an equal number of parents and staff). An SLT may also include students and representatives from CBOs that work with the school. New York State Education Law Section 2590-h requires every New York City Public School to have an SLT. In addition, Chancellor’s Regulation A-655 establishes guidelines to ensure the formation of effective SLTs in every New York City public school.

Magnet Advisory Councils (MACs)

Upon notification of the grant award, each Principal, with support from the Magnet Project Director, will use a wide variety of communication vehicles to inform his or her school community of the school’s magnet status and revisit the commitments the school has made to implement the various components of the grant.

The MAC that will be established in each magnet school will be the primary mechanism to ensure that the voices of all magnet stakeholders are heard and heeded on an ongoing basis. Established either as a subcommittee of the SLT or a stand-alone body, the MAC will serve a critical role in ensuring that the perspectives of magnet program and school staff (including the teachers’ union), parents, students, and members of the larger school community are taken into account when reviewing the progress of the magnet initiative in each building. As noted above, a representative of the MAC will participate in the CIWG convened by the Magnet Project Director. The charge of the MACs, which will meet on a quarterly basis over the life span of the grant, will be as follows:

- review project updates from the school magnet staff, including challenges, accomplishments, and proposed refinements;
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- review formative and summative evaluation data provided by the external evaluator to identify potential issues with meeting performance measures;
- identify NYCDOE, UFT, and Council of School Supervisors and Administrators policies and practices that can be leveraged in support of magnet program goals and those that have the potential to impede program progress, to be flagged to the district magnet team; and
- confer with other D27-29 MACs to share knowledge and help to build a magnet culture and community within the two school districts.

Within three months of the grant award notification, each school will be asked to provide the names and affiliations of the MAC team members to the Magnet Project Director.

While the literature clearly shows the benefits that accrue to students when their parents or caregivers are engaged in school activities, schools serving large numbers of low-income students in challenged communities are often hard-pressed to garner substantial parent involvement, particularly among parents considered “hard to reach” due to a variety of factors (e.g., those who speak a language other than English, those who are forced to work long hours).

In addition to the typical parent involvement activities that most schools conduct, each of the D27-29 magnet schools has crafted a parent engagement component specific to the thematic focus of the magnet grant (see school descriptions in the Quality of Project Design section). Ensuring that parents’ perspectives are well represented on the MACs, the D27-29 magnet initiative will carry out the following practices, which have been found in the literature to be particularly effective in encouraging parents to serve as decision makers in their children’s schools:

- use personalized approaches and phrases to build trust and interest;
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- communicate with parents often and with a variety of communication mediums;
- organize smaller events, such as grade-level nights, rather than whole-school events;
- create venues for families to provide input and receive feedback online and in person;
- conduct outreach in community spaces, such as libraries, grocery stores, family recreational events; and
- communicate with parents in native languages and ensure that all school events incorporate bilingual staff members.

Continuous Improvement Working Group (CIWG)

The CIWG was described earlier in this section as part of the project management framework. In support of the work of the CIWG, the project’s formative evaluation will be designed to collect feedback from all of the key stakeholders of the magnet grant, including the direct beneficiaries of the services (i.e., teachers, students, and parents) as well as key partners, through a wide range of data collection activities, such as surveys, focus groups, and observations. This feedback will be incorporated into the continuous improvement model described earlier in this section so that the program evolves to meet current and emerging needs.

(D) Quality of Personnel (10 points)

The Secretary reviews each application to determine the qualifications of the personnel the applicant plans to use on the project.

The NYCDOE has assembled an exceptionally well-qualified team to spearhead the implementation of the D27-29 magnet program. Included in the core project team are seasoned staff with direct experience working in and supporting elementary and middle school magnet programs, including all areas of magnet school design, delivery, and assessment. Should this application be funded, the NYCDOE will ensure that the D27-29 magnet project will benefit
from the wealth of knowledge and expertise resident within the system at the central office, district, and school levels in support of MSAP objectives.

(I) **The Secretary determines the extent to which the Project Director (if one is used) is qualified to manage the project.**

The MSAP Project Director will have programmatic and administrative responsibility for the project and will commit 100% of her time to magnet responsibilities (described in Section 280.31a, 2i). The proposed candidate for the D27-29 MSAP Project Director position is Josephine Cohen. Ms. Cohen’s dedication to magnet programs in NYC is abundantly clear through her long-standing role as an NYC-based MSAP Project Planner, including her current role as Project Planner for D13-15’s Magnet Consortium, a position she has held since 2013. Before this, she served as the Project Planner for the D30 Magnet Program (2010–13). As Project Planner, Ms. Cohen has worked with three school districts, assisting the MSAP Project Director in overseeing all aspects of the program. Her myriad responsibilities in this role include working with the magnet staff to facilitate theme implementation at each magnet school, the promotion of diversity in magnet schools in accordance with District desegregation plans, and the implementation of programming that fosters school choice, builds school capacity, and improves academic achievement. Ms. Cohen’s current position and success in D13-15 demonstrates her capacity to assume the role of MSAP Project Director in D27-29 and her commitment to the comprehensive and effective implementation of the proposed programs. In both of these positions, Ms. Cohen has received extensive training from very experienced magnet project directors. In addition to her extensive experience as an MSAP Project Planner, Ms. Cohen also served as a Magnet Resource Specialist for PS 95 in Brooklyn from 2005–08, providing training, support, and leadership to teachers in grades pre-K–8 in integrating the magnet theme of
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Multiple Intelligences into their classrooms. Following that role, Ms. Cohen remained at PS 95 for three years, serving as an Inquiry Coach, Testing Coordinator, Gifted and Talented Staff Developer, ESL Coordinator, and Measures of Effective Teaching (MET) School Project Manager. Prior to working at PS 95, Ms. Cohen served as a classroom teacher for eight years at PS 165 in Brooklyn. Ms. Cohen has extensive training in the Teacher’s College Reading and Writing Program, STEM instruction from the NYCDOE and the Salvadori Center, and the Schoolwide Enrichment Model (SEM) from the University of Connecticut. In addition, she presented on best practices in magnet school implementation at the MSA National Conference in 2006 and 2007. Ms. Cohen holds certification as a NYS School District Administrator. She received an MS in school district leadership from Touro College and an MS in reading from Brooklyn College.

(2) The Secretary determines the extent to which other key personnel are qualified to manage the project.

District Leadership

The MSAP Project Director will receive support and guidance from the Superintendent of D27, Mary Barton, and the Superintendent of D29, Lenon Murray (see the Appendix for their résumés). Ms. Barton and Mr. Murray are both skilled administrators and educators with extensive experience mentoring school leaders, training educators, and developing curriculum, in addition to supporting instructional efforts to raise the level of student achievement and close the achievement gap.

Prior to her current position, which she has served in since 2014, Ms. Barton was a Senior Achievement and Technology Integration Facilitator (SATIF) in NYSDOE Cluster 2, Network 204. In this role, Ms. Barton provided staff development to Network Leaders, Achievement
Coaches, Principals, Assistant Principals, and school staff on topics such as the CCLS and the NYCDOE Quality Review Process. She also provided leadership coaching to new and untenured Principals, conducted quality reviews, created action plans for schools, and facilitated citywide trainings for network-level literacy coaches. Prior to that, Ms. Barton served as Principal of PS 236 for over 10 years. In her tenure at PS 236, the school was the recipient of numerous awards and distinctions: it scored an A on the NYCDOE Progress Report in two consecutive years and a Well Developed on the NYCDOE Quality Review in three consecutive years; it received a NYC DOE Innovation Zone (iZone) program; and it was identified by NYSED as a Gap Closing/High Achieving School in 2003–10 and an Exemplary Early Childhood Classroom in 2002. Earlier in Ms. Barton’s career, she worked at IS 240, a magnet school, first as an ELA teacher for 10 years and then as an Assistant Principal for two years. As Superintendent of D27, Ms. Barton oversees 49 schools with over 40,000 students in grades pre-K–12. Ms. Barton holds an MS in education and humanities and an advanced certificate in educational supervision and administration, both from Brooklyn College.

As Superintendent of D29, a role he has served in since 2007, Mr. Murray oversees over 40 schools serving nearly 30,000 students in grades pre-K–12. In this role, he has facilitated the implementation of the CCLS, Principal Performance Reviews, and Advance Teacher Evaluation System; worked in collaboration with the District Leadership Team to develop and implement the District’s vision, mission statement, and Comprehensive Educational Plan (CEP); and developed more than 20 new Principals. Prior to serving as Superintendent, he served as a Principal for five years and an Assistant Principal for four years at two different schools. Earlier in his career, Mr. Murray gained staff development and instructional leadership experience as a school-based Professional Development Coordinator and in curriculum development as a
classroom teacher. Mr. Murray holds an MS in administration and supervision from City College and an MS in special education from Long Island University. Mr. Murray is also certified in NYS as a School District Administrator.

Key MSAP District Staff

Working closely with and reporting to the Project Director will be the full-time, district-level, MSAP-funded Curriculum Specialist, who will support all five magnet schools through the design, facilitation, and oversight of curriculum development and thematic integration activities. The Curriculum Specialist will build capacity at each magnet school as curricula and programs are developed over the lifetime of the grant. The responsibilities of this position will include designing and implementing PD on magnet theme curricula and instructional approaches, serving as a liaison with magnet school teams and NYC and District staff in all magnet curriculum areas, and creating and maintaining partnerships with CBOs and other partner agencies serving D27-29 families. Qualifications for this position include an advanced degree in education, NYC and NYS teaching licenses (either common branch or a secondary core subject area, e.g., ELA, math, science, or social studies), at least five years of experience as a staff developer/trainer, at least five years of experience in curriculum development and implementation, demonstrated skills in providing differentiated PD, at least five years of experience as a teacher working with students and families from diverse backgrounds, knowledge of all relevant learning standards (including CCLS, NGSS, and NYCDOE Curriculum Frameworks), at least five years of experience incorporating STEM instructional approaches into at least three content areas, and experience as a magnet specialist or in another leadership role in a magnet school. Other desired qualifications include excellent written and verbal communications skills, strong organizational abilities, the ability to manage multiple tasks simultaneously, and the ability to establish and maintain
productive working relationships with a range of stakeholders in a multicultural, multilingual setting.

The third key member of the D27-29 magnet team will be the full-time **Community Outreach and Technology Coordinator**. The proposed candidate for the D27-29 MSAP Community Outreach and Technology Coordinator is Reza Pootrakul. Since 2015, Mr. Pootrakul has served as the MSAP Community Outreach and Technology Coordinator for current MSAP grantee D13-15. In this role, he supports thematic instruction by assisting teachers in planning and delivering theme-based activities using technology and trains magnet staff in the use of media and technology. He is also responsible for coordinating program outreach and disseminating information on the magnet schools to parents, community members, and other stakeholders; developing strategic recruitment plans for the District and schools; supporting schools in developing their brand and visual identity by designing logos, advertisements, flyers, posters, brochures, websites, and web graphics; and developing innovative and creative media content across social media platforms. Prior to his District-level magnet work, Mr. Pootrakul served as a Magnet Resource Specialist at IS 250 in Queens. In this role, he acted as a liaison between teachers, staff, and administrators to ensure the magnet theme of community studies was being properly implemented and provided staff with training, coaching, and lesson modeling to support increased the use of technology-embedded curriculum. He also facilitated staff and family magnet workshops and open-forum sessions and conducted outreach activities to support the reduction of MGI at the school. Prior to this, he served as an Instructional Technology Coordinator/Tech Liaison at IS 250 for two years. He has also served as an Achievement Coach for NYCDOE Network 609 and an Adjunct Instructor at the New York Institute of Technology. Mr. Pootrakul holds an MS in instructional technology from New York Institute of Technology.
and an MFA in design and technology from New School University. He is currently earning his
doctorate of education from Concordia University Chicago.

School Leadership

All of the Principals of the proposed magnet schools are highly qualified, visionary leaders,
eminently capable of implementing the magnet school initiative. The magnet school Principals
will oversee the implementation of the program at their buildings and ensure regular
communication between the magnet school planning teams, SLTs, and the Magnet Advisory
Councils. Periodically, the Principals will meet as a group to exchange ideas and discuss topics
of interest to all magnet schools in the District. In addition, the Principals will have access to the
magnet grant website to share and disseminate pertinent materials. Brief descriptions of the skills
and expertise of each magnet school Principal follow; résumés are included in the attachments to
this proposal.

Linda Pough has served as Principal of PS 52 since 2003. In that time, she has transformed
the school, implementing changes to the instructional program that led to increased student
achievement in reading, math, and science and resulted in the school being removed from the
NYS School in Need of Improvement list. Furthermore, during Ms. Pough’s tenure, PS 52
received an A on the NYCDOE Progress Report for three consecutive years, was recognized as a
Reward School by NYSED in 2010–11, and was awarded grant funding for technology
initiatives and PD. Prior to her current role, Ms. Pough served as an Assistant Principal and
classroom teacher at PS/IS 308, School for the Gifted and Talented, in Brooklyn. She is an NYS-
licensed School District Administrator and School Administrator and Supervisor and holds an
MS in educational administration from Pace University and an MA in elementary education from
Adelphi University.
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Since 2003, Angela O’Dowd has served as Principal of PS 62, where she provides instructional leadership to three Assistant Principals and all teaching staff and collaborates with local elected officials to obtain grants to support the integration of technology into instruction. Since Ms. O’Dowd became Principal in 2003, PS 62 has had the distinction of being recognized as a High Performing Gap Closing School by the NYS Education Department. Prior to becoming Principal, Ms. O’Dowd worked for three years at Brooklyn magnet school PS 217 as a classroom teacher. Her instruction in ELA, math, and technology was filmed and has since been used as best practice models for district-wide PD. Following this position, Ms. O’Dowd served as a Technology Staff Developer for D22 and then returned to PS 217, where she served as Assistant Principal. While Assistant Principal, Ms. O’Dowd managed a federal reading grant to improve reading proficiency across the school and collaborated with education consultants that provided PD in reading to teachers. Ms. O’Dowd holds an MS in school and district administration and supervision and an MS in reading in grades K–12.

Beryl Bailey, Principal of PS 195 since 2002, is committed to fostering a school culture that promotes student achievement. With this goal, Ms. Bailey has implemented a Character Education Program and collaborated with Scholastic Books to have students author and publish four books. Ms. Bailey began her career in education as a classroom teacher in private school before serving as a NYC teacher for 15 years. Ms. Bailey left teaching to become an Instructional Specialist and then work at the district level as a Math Staff Developer. In both these roles, she mentored teachers and provided ongoing teacher PD. Ms. Bailey served as an Assistant Principal following her district position. Ms. Bailey holds an MS in elementary education from Queens College.
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Naomi Drouillard, Principal of PS 254, has extensive experience as a school leader, magnet program coordinator, and educator. Before becoming Principal of PS 254, Ms. Drouillard was Assistant Principal of PS 206, where she supervised the after-school academic intervention program. Prior to this, she worked for a year as a Magnet Coordinator for D23, where she provided support and technical assistance to its site coordinators and Principals. Additionally, she coordinated district-wide and school-based staff and parent training activities and coordinated the magnet schools’ curriculum development activities. Before working with magnet schools, Ms. Drouillard was a Library Media Specialist for seven years and a sixth-grade teacher for five years. In her current position, Ms. Drouillard coordinates teacher PD emphasizing student achievement. She holds a master’s in administration and supervision from the Principal Institute of the Bank Street College of Education and a master’s of library science from Queens College. She has a NYS certificate in school administration and supervision.

Melissa Compson has a long track record of providing successful school leadership in the areas of curriculum and instruction, staff development, and technology. For the past two years, Ms. Compson has served as Principal of PS 316, where she has dedicated herself to creating a positive school culture across all areas. She has led the evaluation and revision of the school’s curriculum, coordinated all staff PD activities, and planned and implemented schoolwide projects emphasizing global exploration, community outreach, and service learning. Before this, Ms. Compson was appointed Assistant Principal at Goldie Maple Academy, where she had previously worked as a teacher for 10 years. Ms. Compson holds an MS in reading from C.W. Post and is certified in NYS as a School District Leader from the College of Saint Rose.

**Key School-Based MSAP Staff**
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At the school level, the Magnet Site Coordinator will work closely with the school Principal to spearhead the implementation of the magnet program in their buildings. Desired qualifications for the Magnet Site Coordinators include experience with magnet school development and implementation, experience in staff development and coaching, extensive familiarity with the school and parent community, demonstrated effectiveness in time management and attention to detail, and a demonstrated ability to work well with all constituents of the school community, including students, teachers, and parents. Additional qualifications for the position of teacher specialists include a BA or BS in education, NYC common branches or subject area licenses, and at least three years of experience in a magnet school (preferred).

(3) The Secretary determines the extent to which teachers who will provide instruction in participating magnet schools are qualified to implement the special curriculum of the magnet schools.

The principal instructional personnel for the D27-29 magnet initiative will consist of Resource Specialists. The Resource Specialists will be highly qualified individuals who will be appropriately licensed in the subject areas for which they will be assigned, as will all classroom teachers in the five magnet schools. Specifically, the Resource Specialists will have demonstrated competence in the following areas: instruction of heterogeneously grouped classes consisting of children from diverse ethnic, racial, and socioeconomic backgrounds with varying

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1 As defined by NCLB, teachers who are “highly qualified” must have a bachelor’s degree, full state certification and licensure, and demonstrated competency in each core academic subject that they teach.
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levels of academic skills; use of various innovative, evidence-based teaching methods (e.g., Project Based Learning, arts integration, STEM methodologies) and materials to address the learning styles of different students; development of theme-related curriculum materials that have been effectively used with elementary and/or middle school students; demonstrated effectiveness in differentiating instruction and in the evaluation of student academic performance, including the use of authentic and/or performance-based assessment methods within their subject area or specialty; familiarity with implementing culturally competent approaches designed to foster positive and productive interactions among students of different backgrounds; and the ability to work effectively with students, parents, teachers, and administrators. Additional qualifications for the position of Teacher Specialist include an MA or MS in education, NYC common branches or subject area licenses, and at least three years of experience in a magnet school (preferred).

Currently, each proposed magnet school has several staff members who will directly contribute to the design and implementation of the thematic curricula of the magnet school. Provided in Table 12 are examples of this resident expertise at each school. Should teaching vacancies occur during the lifespan of the magnet grant, the Principal, working with the school-based magnet team and the MSAP project team and following all NYCDOE and UFT contracting rules, will make every effort to recruit a staff member who brings relevant experience as well as a passion for the magnet program on board. Currently, each proposed magnet school has several staff members that will directly contribute to the design and implementation of the thematic curricula of the magnet school.

Provided in Table 12 are examples of this resident expertise at each school. Should teaching vacancies occur during the lifespan of the magnet grant, the Principal, working with the school-
based magnet team and the MSAP project team and following all NYCDOE and UFT contracting rules, will make every effort to recruit a staff member who brings relevant experience as well as a passion for the magnet program on board.

Table 12. School-based Staff with Expertise to Support Theme Integration

<table>
<thead>
<tr>
<th>School</th>
<th>Theme</th>
<th>Staff</th>
<th>Relevant Experience</th>
</tr>
</thead>
<tbody>
<tr>
<td>PS 52</td>
<td>Innovation, Exploration and Engineering</td>
<td>Sarah Fay, Math, Computer Lab Grant Teacher</td>
<td>In her current role, Ms. Fay manages the schoolwide math program, where she is responsible for providing math PD to teachers, designing instructional tools, and using innovative strategies to differentiate instruction. She uses her background in media and her certifications in SMART media and educational technology to tailor her instructional approaches with her students.</td>
</tr>
</tbody>
</table>
| PS 62  | Computer Science and Innovation | Teresa O’Brien-Israel, School Library Teacher | Ms. O’Brien-Israel is responsible for managing the school library and its programming. She successfully applied for grants that were used to remodel the library and enhance the school’s technology program. Prior to this position, Ms. O’Brien served as Assistant Principal, where she coordinated staff development in all areas of teaching and learning. She also worked at the UFT Teacher Center, where she provided various types of PD, including co-
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<table>
<thead>
<tr>
<th>School</th>
<th>Staff</th>
<th>Relevant Experience</th>
</tr>
</thead>
<tbody>
<tr>
<td>PS 195 Multimedia Arts and STEM</td>
<td>Jaclyn Lass, Lead Data Specialist and Technology Coordinator</td>
<td>Since 2004, Ms. Lass has analyzed school and classroom data to drive curriculum and instruction. In addition, she maintains all the building’s technology, supervises the technology and audiovisual team, and coordinates the Math, Science, and Technology Fair. Prior to this position, she was a classroom teacher, where she gained extensive experience teaching in all academic subject areas and coordinated PD for staff in math and art and founded a student art club. Ms. Lass holds an MA in educational leadership and technology and an MA in art education.</td>
</tr>
<tr>
<td>PS 254 Leadership Development and the Arts</td>
<td>Pamela Markham, Assistant Principal</td>
<td>As Assistant Principal, Ms. Markham is responsible for supervising the school’s special academic programs, providing PD to teachers, evaluating teacher performance, and assessing the school’s literacy program and curriculum. As a former teacher, Ms. Markham occupied different leadership roles, such as member of the Chancellor’s Magnet Community Learning Advanced Regents Program.</td>
</tr>
</tbody>
</table>
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<table>
<thead>
<tr>
<th>School</th>
<th>Theme</th>
<th>Staff</th>
<th>Relevant Experience</th>
</tr>
</thead>
<tbody>
<tr>
<td>PS 316</td>
<td>Global Conservation and Service Learning</td>
<td>Nicole Brennan, Kindergarten and First-Grade Teacher</td>
<td>Her leadership achievements include Cahn Fellow at Teachers College Columbia University and Chairperson for the School Leadership Committee. During her nine years’ experience of as a teacher, Ms. Brennan has developed and implemented curriculum in all academic areas, with an emphasis on global conversation. In her current position, she designed two original service learning projects for her students: the <em>Think Twice Don’t Melt the Ice</em> project and <em>The Jump Rope for Heart</em> project. The first project focused on saving polar bear habitats and the second focused on heart health and raised over $6,000 for the American Heart Association. Ms. Brennan holds a BS in early childhood education with a concentration in geography and an MS in elementary education.</td>
</tr>
</tbody>
</table>

Within each D27-29 magnet school, the effectiveness of Resource Specialists and classroom teachers will be evaluated using *Advance*, the NYCDOE’s teacher development and evaluation system that considers what teachers do and how students perform. As highlighted in the Quality of Project Design section, the magnet initiative will implement a robust program of PD to build the capacity of the school staff to address the instructional priorities of the school system through...
the lens of the specialized magnet curriculum, which will benefit the students attending the magnets well beyond the funding cycle.

In conclusion, the combined expertise of district- and school-based staff in fields related to the objectives of the magnet program will ensure the Districts’ and schools’ effectiveness in making progress in the broad areas of systemic reform embodied in the MSAP statute:

- magnet school administration and implementation, including a Superintendent and two Principals with extensive experience working with and within magnet schools;
- implementing student programming that fosters student leadership and innovation;
- STEM-related content areas, including designing, developing, and implementing classroom instruction and enrichment in these areas and exposing students to careers in these fields; and
- designing and conducting PD and peer coaching initiatives to improve the rigor and relevance of teaching practices.

(E) Quality of Project Evaluation

The Secretary considers the quality of the evaluation to be conducted of the proposed project.

The D27-29 consortium proposes to retain Metis Associates to conduct the program evaluation of the MSAP grant initiative. Metis is an educational research and evaluation firm that has provided technical assistance and professional support for a wide range of education and human services initiatives for over 38 years. Metis has conducted evaluations of MSAP initiatives over the past nine MSAP funding cycles for nine community school districts in New York City; Broward County, FL; Baltimore County; Champaign, IL; Orangeburg County, SC; and Beacon, NY. Metis served as the external evaluator for D27’s last MSAP grant during the 2001–04 funding cycle. Metis has also conducted system-wide evaluations and audits of magnet
and choice programs for several large school districts, including Montgomery County (MD) Public Schools in 2015, Broward County in 2014, Baltimore County in 2013, and Pittsburgh Public Schools in 2008. Final reports for these evaluations have been posted on the districts’ websites.

Metis has a duly constituted Institutional Review Board that is registered with the U.S. Department of Health and Human Services and assures compliance with Federal-Wide Assurance requirements for the Protection of Human Subjects. Metis will collaborate with the District’s research department to secure approval for all activities conducted for the evaluation of the magnet initiative.

The evaluation of the MSAP initiative will be directed by Claire Aulicino, a Senior Associate at Metis. Ms. Aulicino has directed evaluations of MSAP grants over the past five MSAP funding cycles and has served as the lead evaluator for 11 MSAP grants, including D27’s grant in 2001–03. Ms. Aulicino will be supported by highly qualified staff and will regularly consult with Metis’s Design Consulting Committee on all aspects of the evaluation. The evaluation team will participate in all USDOE Project Directors meetings and will assist NYCDOE in fulfilling all compliance monitoring or other program-related requirements. Ms. Aulicino’s résumé is provided in the attachments.

(1) The Secretary determines the extent to which the methods of evaluation provide for examining the effectiveness of project implementation strategies.

The evaluation is designed to assess the implementation of project activities and the extent to which the activities support achievement of the project outcomes and outputs, as articulated in the district and school logic models. The evaluation design includes formative and summative components and uses multiple measures over multiple groups of subjects. Data from all sources
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will be synthesized and analyzed to maximize precision of outcome information and enrich the capacity of the Project Director and the D27-29 MSAP stakeholders to make informed and timely decisions about program development and implementation.

The formative evaluation will focus on program implementation and assessment of project activities. Ongoing formative feedback will be provided to the Project Director and the school-based magnet teams about the extent to which project activities are being implemented as planned and in line with the intended outcomes. This feedback and data will be critical for ensuring that the project is well positioned to meet its objectives and for developing program adjustments as part of a continuous improvement model. Formative evaluation methods, including documentation reviews, written surveys, interviews, and biannual field observations, will be conducted to answer key questions about the outreach and recruitment strategies being used; how the schools are planning, developing, and implementing the themes and ensuring that all students have access to magnet thematic curricula and activities; the types of staff development being offered and the levels of participation in these; and the collaborations, among instructional staff, within the school community, and with external partners, being fostered to support the program. Project status reports, ongoing informal communication, and presentations by the evaluator will provide the NYCDOE leadership, the MSAP Project Director and school-based MSAP staff, and other audiences with formative feedback on program implementation and best practices.

Summative evaluation activities will be conducted to assess the impact of program evaluation on the intended outcomes, as outlined in the logic models and project performance measures. The summative evaluation methods will include the analysis of data collected through monthly program implementation logs, stakeholder surveys, enrollment and applicant pools, standardized
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achievement test scores, and performance-based student assessment data.

(2) The Secretary determines the extent to which the methods of evaluation include the use of objective performance measures that are clearly related to the intended outcomes of the project and will produce quantitative and qualitative data to the extent possible.

This section presents the project performance measures that will be used to assess the extent to which the four project-level objectives that are described in the Management Plan are being met in each year of the grant. It also describes the specific methods that will be used to collect and analyze data to evaluate the impact on each performance measure.

Project Objective 1: Reduce minority group isolation among Asian, Hispanic and African American students in proposed magnet schools. The following performance measures will be used to evaluate the extent to which Project Objective 1 is met over the three-year grant period.

Performance Measure 1.1 (GPRA Measure): Through implementation of a whole-school magnet program, each magnet school will achieve reductions in minority group isolation (MGI) among Asian, Hispanic, or African American students. The proportions of students in the targeted MGI group will be reduced at each school by the following percentages for each year.

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<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>D27 magnet: Reduce MGI among Asian students</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PS 62</td>
<td>60.5% to 58.1%</td>
<td>58.1% to 55.4%</td>
<td>55.4% to 52.6%</td>
</tr>
<tr>
<td>D27 magnets: Reduce MGI among Hispanic students</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PS 254</td>
<td>74.6% to 72.2%</td>
<td>72.2% to 69.9%</td>
<td>69.9% to 66.5%</td>
</tr>
<tr>
<td>PS 316</td>
<td>50.0% to 47.1%</td>
<td>47.1% to 43.8%</td>
<td>43.8% to 41.0%</td>
</tr>
<tr>
<td>D29 magnets: Reduce MGI among African American students</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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<table>
<thead>
<tr>
<th>School</th>
<th>Grade 1</th>
<th>Grade 2</th>
<th>Grade 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>PS 52</td>
<td>86.1% to 83.8%</td>
<td>83.8% to 81.2%</td>
<td>81.2% to 78.2%</td>
</tr>
<tr>
<td>PS 195</td>
<td>92.5% to 90.6%</td>
<td>90.6% to 87.0%</td>
<td>87.0% to 84.0%</td>
</tr>
</tbody>
</table>

**Performance Measure 1.2:** As a result of ongoing outreach and student recruitment efforts and the development of innovative educational programming, the number of students who apply to each of the magnet schools will increase by 5% in Year 2 and Year 3 of the grant over the prior year, compared with baseline data collected in Year 1.

**Evaluation Methods for Project Objective 1:** Data to assess Performance Measure 1.1 will be obtained from an annual analysis of student enrollment data from the NYCDOE registers for all active students as of October 1 of each project year. Frequency calculations will conducted by school and grade to determine the number and proportion of students by racial/ethnic group. Data to assess Performance Measure 1.2 will be collected from magnet application data to determine the number of applications by school in each year of the grant. Results from the enrollment and application data will be synthesized with data on outreach and recruitment logs and marketing materials for each school and the Districts to assess the effectiveness of the outreach and student recruitment plans.

**Project Objective 2:** Ensure that all students attending the magnet schools meet challenging academic standards and are on track to be college- and career-ready. The following performance measures will be used to evaluate the extent to which Project Objective 2 is met over the three-year grant period.

**Performance Measure 2.1 (GPRA Measure):** At each magnet school, students in each racial/ethnic group, students with disabilities, low-income students, and ELLs will demonstrate measurable improvements in academic achievement in ELA/English. This will be measured by
an increase of four or more percentage points in the proportion of students in each tested grade level who meet the grade-level standards on NYS assessments in ELA (grades 3–5) in each project year, and by Year 3, the overall increase will be statistically significant.

**Performance Measure 2.2 (GPRA Measure):** At each magnet school, students in each racial/ethnic group, students with disabilities, low-income students, and ELLs will demonstrate measurable improvements in academic achievement in math. This will be measured by an increase of four or more percentage points in the proportion of students in each tested grade level who meet the grade-level standards on NYS assessments in math (grades 3–5) in each project year, and by Year 3, the overall increase will be statistically significant.

**Evaluation Methods for Project Objective 2:** The standardized instruments for student assessments include the NYS assessment exams that are administered annually to students in ELA and math for grades 3–5. Results for these tests are expressed both in scale scores and performance-level equivalents. Scale scores are equal-interval, criterion-referenced scores that create a continuous scale that extends across grade levels. For each grade, scores are categorized into one of four performance levels: Level 1 (well below proficient), Level 2 (partially proficient), Level 3 (proficient), and Level 4 (excels).

Student achievement results will be derived from performance-level analyses using matched data to calculate the proportions of students in each year who are proficient or excel in higher-learning standards (performance levels 3 and 4). Chi Square tests of independence or other appropriate statistical measures, such as McNemar tests, will be conducted to determine if changes in student achievement occur from one year to the next and if differences in achievement by student subgroup are statistically significant. All analyses will be conducted by school, by grade level, and by student subgroup—including each major racial and ethnic group,
students with disabilities, low-income students, and ELLs—except in cases where the number of students in a category is less than 10 and therefore insufficient to yield statistically reliable information, and/or where the results yield personally identifiable information.

Project Objective 3: Ensure that all students attending the magnet schools benefit from the magnet’s educational offerings and have equal opportunities to gain magnet theme–specific value-added skills and knowledge. The following performance measures will be used to evaluate the extent to which Project Objective 3 is met over the three-year grant period.

Performance Measure 3.1: As part of the magnet program at each school, all students (100%) will be exposed to at least one new thematic curriculum unit in Year 1, at least two new thematic curriculum units in Year 2, and at least three new thematic curriculum units in Year 3.

Performance Measure 3.2: Through their participation in the magnet program, the proportion of students in each school who demonstrate improvements in noncognitive skills will increase by 10 percentage points in Year 2 and 15 percentage points in Year 3, compared with baseline data collected in Year 1.

Performance Measure 3.3: Through their participation in the magnet program, the proportion of students in each school who demonstrate improvements in a set of unique, magnet value-added standards and skills will increase by 10 percentage points in Year 2 and 15 percentage points in Year 3, compared with baseline data collected in Year 1.

Evaluation Methods for Project Objective 3: Data to assess Performance Measure 3.1 will be derived from a systematic review of curriculum development and implementation logs and copies of thematic curriculum units. Data to assess Performance Measures 3.2 and 3.3 will be assessed with the administration of authentic student performance assessments that will be developed by the magnet staff at each school in collaboration with district MSAP staff, the
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external evaluator, and program partners and based on published literature and research. The assessments will be completed by teachers for each student to measure student attainment of noncognitive skills and unique, magnet value-added skills. The skills will include theme-related content skills and 21st-century or noncognitive skills, such as motivation, persistence, and communication, and will be specific to each school’s magnet theme and curriculum. The assessments will be administered in the spring of each project year and analyzed by school, by grade, and by student subgroup using frequencies and cross-tabulations to determine the proportion of students who master the skills in each year. The assessments will be pilot-tested in Year 1 with item analyses and reduction conducted to ensure validity and reliability of the items in measuring the intended outcomes.

Qualitative data to provide contextual information about the implementation of thematic curriculum units at each school and student attainment of magnet value-added and noncognitive skills will be obtained from biannual site visits by the evaluator to each magnet school in each project year that will include class observations and interviews and focus groups with planning team members, teachers, and students.

Project Objective 4: Build the capacity within the magnet schools to provide rigorous, theme-based instructional programs that will help promote choice and diversity in the D27-29 schools. The following performance measures will be used to evaluate the extent to which Project Objective 4 is met over the three-year grant period.

Performance Measure 4.1: To build staff capacity, each magnet school will develop a comprehensive three-year professional development (PD) plan to outline implementation of staff development directly related to the magnet theme and the standards- and evidence-based instructional practices that are outlined in the MSAP grant application. Based on the plans, all
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School leaders and instructional staff in each school will participate in 50 or more hours of magnet-related PD in each year of the grant.

**Performance Measure 4.2:** Through their participation in magnet-related PD, the proportion of teachers in each school who demonstrate an increase in knowledge of the concepts related to the magnet theme and innovative instructional strategies will increase by 10 percentage points in Year 2 and 15 percentage points in Year 3, compared with baseline data collected in Year 1.

**Evaluation Methods for Project Objective 4:** Data to assess Performance Measure 4.1 will be derived from a review of each magnet school’s annual PD plan, school and district PD activity logs, and PD agendas and sign-in sheets. Data to assess Performance Measure 4.2 will be derived from an analysis of responses to a survey of instructional staff that will be developed by the external evaluator in consultation with the school and District MSAP staff, and will be analyzed using frequency and cross-tabulation calculations by school and for the project. The survey will be administered to all instructional staff at each magnet school each spring to collect data on staff’s knowledge and skills in key concepts addressed in the magnet PD, as well as measure awareness and support for the magnet program and their participation in and satisfaction with program planning. The survey will be pilot-tested in Year 1 with item analyses and reduction conducted to ensure validity and reliability of the items in measuring the intended outcomes.

The measurement framework shown in Table 13 will be used to guide the program evaluation. The framework outlines the indicators; measures of change; and the data collection methods, sources, and timeline of the activities that will be conducted to assess progress toward meeting each of the project objectives to be addressed over the three-year MSAP grant. Long-term outcomes, as outlined in the logic model, will be addressed by NYCDOE staff beyond the scope of the grant period.
### Table 13. D27-29 MSAP Program Evaluation Measurement Framework

<table>
<thead>
<tr>
<th>Outcomes/Outputs (As Per Logic Model)</th>
<th>Indicators</th>
<th>Measures of Change</th>
<th>Data Collection Methods</th>
<th>Data Sources</th>
<th>Frequency of Data Collection</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Program Outputs (Short-Term)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interdisciplinary, PBL thematic units of study for all grade levels (Performance Measure 3.1)</td>
<td>Implementation of interdisciplinary, PBL thematic units</td>
<td>Proportion of students exposed to thematic curriculum units</td>
<td>Review of program documentation and curriculum, teacher focus, principal interviews, class observations</td>
<td>Curriculum development and implementation logs and copies of thematic curriculum units, observation and interview protocols</td>
<td>Biannually</td>
</tr>
<tr>
<td>Staff training (Performance Measure 4.1)</td>
<td>Staff participation in magnet-related PD</td>
<td>Proportion of teachers and school leaders enrolled in grant-related training and PD</td>
<td>Review of program documentation and PD participation data</td>
<td>PD plan, PD activity logs, and PD agendas and sign-in sheets</td>
<td>Annually</td>
</tr>
<tr>
<td><strong>MSAP Outcomes (Intermediate)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reduced MGI in magnet schools (Performance Measure 1.1)</td>
<td>Proportion of students in each racial/ethnic group compared to total school population</td>
<td>Reduction in the proportion of Asian, Hispanic, or African American students compared with the total school population</td>
<td>Analysis of the proportion of students by racial/ethnic group enrolled in each school</td>
<td>NYCDOE Official Student Rosters as of September 30</td>
<td>Annually</td>
</tr>
<tr>
<td>Increased interest and demand from out-of-zone students (Performance Measure 1.2)</td>
<td>Number of magnet applications submitted for each program</td>
<td>Increase in number of applications submitted for each school</td>
<td>Analysis of number of applications</td>
<td>NYCDOE application data files as of September 30</td>
<td>Annually</td>
</tr>
<tr>
<td>Improved student achievement</td>
<td>Student proficiency on state</td>
<td>Increase in the proportion of</td>
<td>Review of student scores on state</td>
<td>NYS assessments in ELA and math</td>
<td>Annually</td>
</tr>
<tr>
<td>Outcomes/Outputs (As Per Logic Model)</td>
<td>Indicators</td>
<td>Measures of Change</td>
<td>Data Collection Methods</td>
<td>Data Sources</td>
<td>Frequency of Data Collection</td>
</tr>
<tr>
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</tr>
<tr>
<td>(Performance Measures 2.1 and 2.2)</td>
<td>assessments in ELA and math</td>
<td>students who meet or exceed expectations on state assessments</td>
<td>assessments</td>
<td>(grades 3–5)</td>
<td>Annual assessments, biannual site visits</td>
</tr>
<tr>
<td>Increased student proficiency in noncognitive skills (Performance Measure 3.3)</td>
<td>Demonstration of noncognitive skills</td>
<td>Increase in proportion of students who demonstrate mastery of noncognitive skills</td>
<td>Analysis of data on student performance assessments, teacher and student focus groups, principal interviews, class observations</td>
<td>Student performance assessments, observation and interview protocols</td>
<td>Annual assessments, biannual site visits</td>
</tr>
<tr>
<td>Increased student proficiency in applied and marketable skills (Performance Measure 3.4)</td>
<td>Demonstration of magnet value-added skills</td>
<td>Increase in proportion of students who demonstrate mastery of magnet value-added skills</td>
<td>Analysis of staff survey data, teacher focus groups, principal interviews, class observations</td>
<td>Staff surveys, observation and interview protocols</td>
<td>Annual survey, biannual site visits</td>
</tr>
<tr>
<td>Increased staff knowledge and skills in innovative teaching strategies (Performance Measure 4.2)</td>
<td>Demonstration of knowledge and skills related to magnet themes and PD</td>
<td>Increase in proportion of staff who demonstrate an increase in knowledge and skills related to magnet themes and PD</td>
<td>Analysis of staff survey data, teacher focus groups, principal interviews, class observations</td>
<td>Staff surveys, observation and interview protocols</td>
<td>Annual survey, biannual site visits</td>
</tr>
</tbody>
</table>
The Secretary determines the extent to which the methods of evaluation will provide performance feedback and permit periodic assessment of progress toward achieving intended outcomes.

The evaluation plan will include the use of quantitative and qualitative methods to collect and yield reliable, objective, and quantifiable formative and summative data regarding the proposed project’s progress in achieving its performance measures, including program implementation and impact. Both formative and summative data will be collected from multiple respondents using multiple methods. All data will be triangulated to incorporate perspectives from the diversity of program stakeholder groups. The findings will be synthesized to objectively document the effort expended to implement program activities and determine the effectiveness of project activities and the efficacy of the project in relation to outcomes achieved.

Results of the external evaluation will be provided to the Project Director through monthly communications and status updates and biannual summary reports. The evaluator will also provide ongoing informal feedback as data are collected and will participate in the monthly MSAP meetings conducted by the Project Director. Ongoing feedback will ensure that the evaluation supports continuous improvement of the project.

The results of the quantitative and qualitative data analyses will be synthesized and presented by NYCDOE to the USDOE in the Annual Performance Reports and Ad-Hoc Reports for each project year, including a final report at the end of the grant period. Metis will assist the MSAP staff in preparing the reports to present succinct findings about the success of the project in meeting the intended outcomes that are outlined in the project objectives and performance measures. NYCDOE will also provide data to the USDOE to report on progress on the six project-level measures as required by Government Performance and Results Act (GPRA).