2014-15 School Quality Guide / ES

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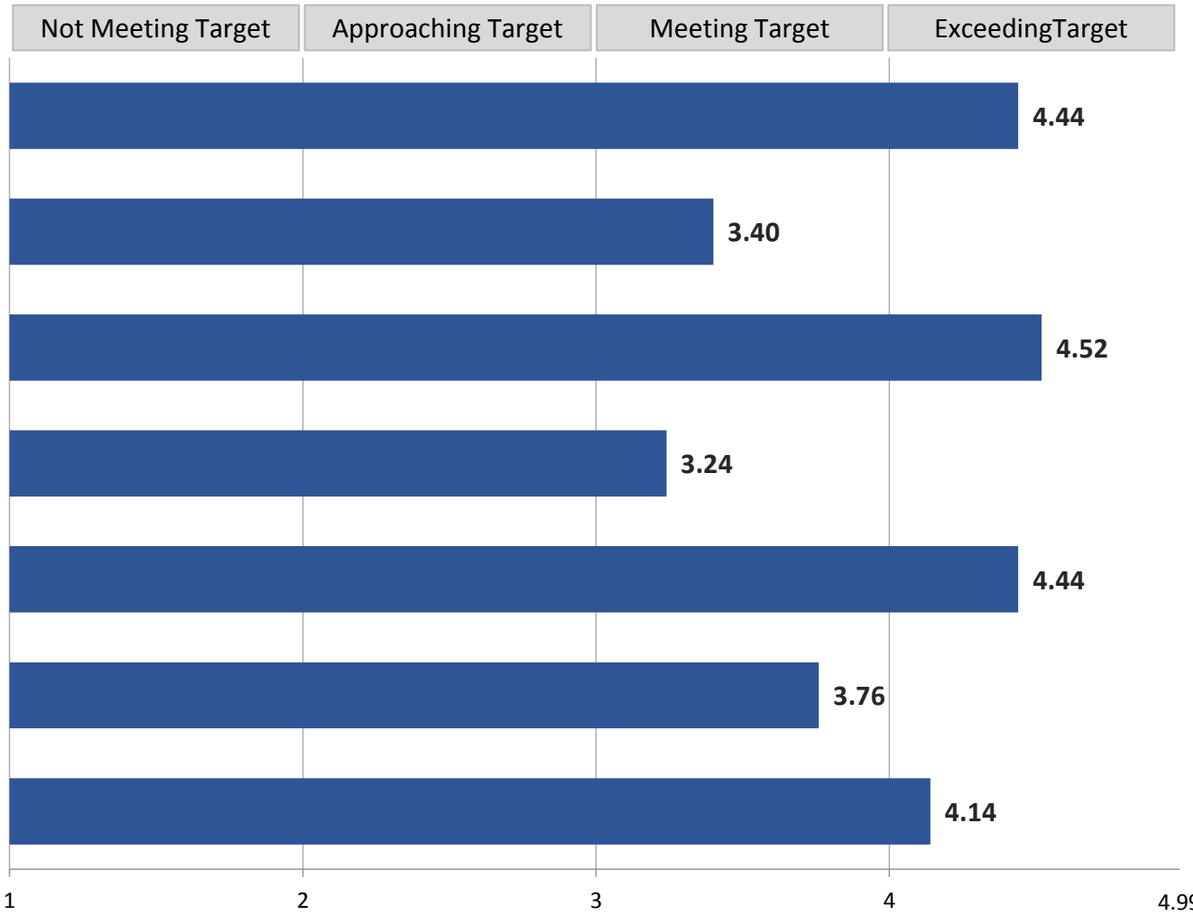
Summary of Section Ratings

Magnet School of Math, Science and Design Technology

Framework for Great Schools

The Framework consists of six elements—Rigorous Instruction, Collaborative Teachers, Supportive Environment, Effective School Leadership, Strong Family-Community Ties, and Trust—that drive Student Achievement. The School Quality Guide shares ratings and data on each of the Framework elements, based on information from Quality Reviews, the NYC School Survey, student attendance, and movement of students with disabilities to less restrictive environments. The School Quality Guide also shares ratings and data on Student Achievement based on a variety of quantitative measures of student growth and performance.

Section	Section Rating
Rigorous Instruction	Exceeding Target
Collaborative Teachers	Meeting Target
Supportive Environment	Exceeding Target
Effective School Leadership	Meeting Target
Strong Family-Community Ties	Exceeding Target
Trust	Meeting Target
Student Achievement	Exceeding Target



Section scores are on a scale from 1.00 - 4.99. The first digit corresponds to the section rating, and the additional digits show how close the school was to the next rating level.

State Accountability Status: Reward

This designation is determined by the New York State Department of Education. More information on New York State accountability can be found at: http://schools.nyc.gov/Accountability/tools/accountability/default.htm

Note

In addition, an online version of the 2014-15 School Quality Guide, with additional features, can be found at http://schoolqualityreports.nyc

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School Enrollment and Demographic Data

Magnet School of Math, Science and Design Technology

Student Enrollment

Grade	2012 - 2013	2013 - 2014	2014 - 2015
Kindergarten	151	169	171
Grade 1	152	146	168
Grade 2	171	157	156
Grade 3	159	163	148
Grade 4	124	159	153
Grade 5	98	127	157
All students	**891**	**921**	**1097**

Student Demographics

	2012 - 2013	2013 - 2014	2014 - 2015
% English Language Learners	4%	4%	4%
% Free Lunch Eligible	69%	69%	69%
% Student with IEPs	25%	24%	24%
% Student with IEPs (less than 20% time)	3%	2%	2%
% HRA Eligible	-	22%	21%
% Temporary Housing	-	3%	3%
% Asian	6%	7%	6%
% Black	11%	10%	9%
% Hispanic	35%	32%	31%
% White	44%	47%	49%
% Other	0%	4%	5%

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Student Achievement Scoring Appendix

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Magnet School of Math, Science and Design Technology

Student Achievement Rating	Student Achievement Score
Exceeding Target	**4.14**

Student Achievement Metrics	n	2014-15 School Value	2014-15 Targets: Bottom of Target Range	2014-15 Targets: Approaching Target	2014-15 Targets: Meeting Target	2014-15 Targets: Exceeding Target	2014-15 Targets: Top of Target Range	Metric Score	Weight Pct
State Test Results - ELA									
● Average Student Proficiency	395	**3.00**	2.26	2.54	2.69	2.87	3.11	**4.54**	9.09%
● Percentage of Students at Level 3 or 4	395	**54.7%**	15.4%	28.4%	36.7%	46.3%	58.0%	**4.72**	9.09%
Median Adjusted Growth Percentile	263	**63.0**	47.4	55.1	61.9	66.6	77.8	**3.23**	9.09%
Median Adjusted Growth Percentile - School's Lowest Third	90	**68.5**	54.5	63.0	70.4	75.5	87.8	**2.74**	9.09%
Early Grade Progress	130	**2.07**	0.88	1.54	2.09	2.47	3.39	**2.96**	9.09%
State Test Results - Math									
● Average Student Proficiency	389	**3.28**	2.30	2.66	2.87	3.11	3.43	**4.53**	9.09%
● Percentage of Students at Level 3 or 4	389	**66.8%**	16.4%	32.5%	43.1%	55.2%	70.2%	**4.77**	9.09%
● Median Adjusted Growth Percentile	256	**71.5**	38.0	49.5	59.5	66.5	83.1	**4.30**	9.09%
Median Adjusted Growth Percentile - School's Lowest Third	92	**73.0**	48.3	58.5	67.3	73.5	88.1	**3.92**	9.09%
● Early Grade Progress	130	**3.13**	0.71	1.69	2.49	3.05	4.43	**4.06**	9.09%
● MS Adjusted Core Course Pass Rate of Former Students	113	**96.8%**	78.6%	84.7%	89.0%	93.9%	100.0%	**4.48**	9.09%
								Weighted Average Score	**4.02**

Closing the Achievement Gap (CtAG) Metrics	n	2014-15 School Population %	Population % of Range	2014-15 School Value	2014-15 Targets: Bottom of Target Range	2014-15 Targets: Approaching Target	2014-15 Targets: Meeting Target	2014-15 Targets: Exceeding Target	2014-15 Targets: Top of Target Range	Metric Score	Extra Points Possible	Extra Points Earned
ELA - Percent at Level 3 or 4												
Self-Contained	10	2.5%	12.3%	**10.0%**	0.0%	1.1%	1.9%	2.7%	4.6%		0.030	0.000
Integrated Co-Teaching	50	12.7%	64.5%	**8.0%**	0.0%	3.7%	6.5%	9.3%	15.8%	**3.54**	0.030	0.019
● SETSS	29	7.3%	69.5%	**10.3%**	0.0%	3.5%	6.2%	8.9%	15.0%	**4.23**	0.030	0.024
Math - Percent at Level 3 or 4												
Self-Contained	9	2.3%	11.4%	**11.1%**	0.0%	2.9%	5.2%	7.4%	12.6%		0.030	0.000
● Integrated Co-Teaching	49	12.6%	64.3%	**28.6%**	0.0%	7.2%	12.9%	18.4%	31.2%	**4.80**	0.030	0.029
● SETSS	30	7.7%	74.0%	**20.0%**	0.0%	6.6%	11.7%	16.8%	28.4%	**4.28**	0.030	0.025
ELA - Percent at 75th+ Growth Percentile												
ELL	11	4.2%	9.0%	**36.4%**	12.7%	26.0%	36.3%	46.4%	69.9%		0.030	0.000
Lowest Third Citywide	37	14.1%	18.7%	**56.8%**	28.0%	38.8%	47.1%	55.4%	74.4%		0.030	0.000
Black and Hispanic Males in Lowest Third Citywide	13	4.9%	12.4%	**53.8%**	23.6%	36.2%	45.9%	55.6%	77.8%		0.030	0.000
SC/ICT/SETSS	55	20.9%	48.7%	**40.0%**	22.0%	34.9%	44.8%	54.7%	77.4%	**2.52**	0.030	0.011
Math - Percent at 75th+ Growth Percentile												
ELL	11	4.3%	8.8%	**27.3%**	7.8%	22.3%	33.5%	44.6%	70.2%		0.030	0.000
Lowest Third Citywide	32	12.5%	17.2%	**50.0%**	19.1%	32.5%	42.8%	53.1%	76.7%		0.030	0.000
Black and Hispanic Males in Lowest Third Citywide	11	4.3%	11.2%	**36.4%**	14.4%	29.5%	41.2%	52.8%	79.4%		0.030	0.000
SC/ICT/SETSS	54	21.1%	50.1%	**33.3%**	15.4%	29.5%	40.4%	51.3%	76.2%	**2.35**	0.030	0.010
ELL Progress	35	3.7%	9.4%	**62.9%**	31.6%	44.8%	55.1%	65.2%	88.6%		0.030	0.000
										CtAG Additional Points		**0.12**
										Overall Student Achievement Score		**4.14**

● Filled circle indicates a metric rating of Exceeding Target (and a metric score of 4.00 or higher).

○ Empty circle indicates a metric rating of Not Meeting Target (and a metric score of 1.99 or lower).

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Framework Elements Scoring Appendix

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Magnet School of Math, Science and Design Technology

	Metric Value	Metric Score	Weight Pct
Rigorous Instruction			
Quality Review 1.1	Well Developed	4.99	22%
Quality Review 1.2	Well Developed	4.99	22%
Quality Review 2.2	Well Developed	4.99	22%
NYC School Survey - Rigorous Instruction	92%	3.36	34%
Section Rating: Exceeding Target	**Section Score:**	**4.44**	
Collaborative Teachers			
Quality Review 4.2	Proficient	3.40	50%
NYC School Survey - Collaborative Teachers	87%	3.36	50%
Section Rating: Meeting Target	**Section Score:**	**3.40**	
Supportive Environment			
Quality Review 3.4	Well Developed	4.99	30%
NYC School Survey - Supportive Environment	96%	4.24	35%
Percentage of students with 90%+ attendance			
EMS	93.2%	4.76	
HS			
Overall	93.2%	4.76	30%
Movement of students with disabilities to less restrictive environments			
EMS	0.12	1.86	
HS			
Overall	0.12	1.86	5%
Section Rating: Exceeding Target	**Section Score:**	**4.52**	
Effective School Leadership			
NYC School Survey - Effective School Leadership	80%	3.24	100%
Section Rating: Meeting Target	**Section Score:**	**3.24**	
Strong Family-Community Ties			
NYC School Survey - Strong Family-Community Ties	93%	4.44	100%
Section Rating: Exceeding Target	**Section Score:**	**4.44**	
Trust			
NYC School Survey - Trust	91%	3.76	100%
Section Rating: Meeting Target	**Section Score:**	**3.76**	

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Framework Elements - Survey Scoring Appendix Magnet School of Math, Science and Design Technology

			Survey % Positive	City Range Bottom of Range	City Range City Avg	City Range Top of Range	Percent of Range	Score
Rigorous Instruction								
	Common Core shifts in literacy	Teachers	92	86.4	94.8	100.0	0.50	3.00
	Common Core shifts in math	Teachers	93	83.3	93.1	100.0	0.57	3.28
	Course clarity	Students		84.3	92.7	100.0		
	Quality of student discussion	Teachers	91	68.7	85.3	100.0	0.71	3.84
Section Results:			92%					**3.36**
Collaborative Teachers								
	Cultural awareness:							
	Cultural awareness	Teachers	96	85.4	95.0	100.0	0.75	
	Cultural awareness	Parents	96	90.5	94.9	99.3	0.75	
	Cultural awareness	Students		68.6	87.4	100.0		
•	Cultural awareness	Combined	96				0.75	4.00
	Inclusive classroom instruction	Teachers	93	84.2	94.6	100.0	0.58	3.32
	Quality of professional development	Teachers	69	51.4	77.4	100.0	0.36	2.44
	School commitment	Teachers	88	59.9	85.3	100.0	0.70	3.80
	Innovation	Teachers	84	70.3	86.7	100.0	0.46	2.84
•	Reflective dialogue	Teachers	95	87.9	95.9	100.0	0.75	4.00
	Peer collaboration	Teachers	92	77.6	92.2	100.0	0.66	3.64
	Focus on student learning	Teachers	87	68.2	89.0	100.0	0.59	3.36
	Collective responsibility	Teachers	81	65.7	84.7	100.0	0.43	2.72
Section Results:			87%					**3.36**
Supportive Environment								
	Safety:							
	Safety	Teachers	100	80.0	94.6	100.0	1.00	
	Safety	Students		74.5	88.5	100.0		
•	Safety	Combined	100				1.00	4.99
	Classroom behavior:							
	Classroom behavior	Teachers	91	66.9	85.5	100.0	0.72	
	Classroom behavior	Students		67.3	84.3	100.0		
	Classroom behavior	Combined	91				0.72	3.88
•	Social-emotional measure	Teachers	98	89.0	96.6	100.0	0.84	4.36
	Peer interactions	Students		68.2	84.8	100.0		
	Next-level guidance	Students						
	Press toward academic achievement:							
	Press toward academic achievement	Teachers	91	75.0	88.8	100.0	0.64	
	Press toward academic achievement	Students		85.3	91.9	98.5		
	Press toward academic achievement	Combined	91				0.64	3.56
	Personal attention and support	Students		77.8	89.6	100.0		
	Peer support for academic work:							
	Peer support for academic work	Teachers	98	76.5	91.5	100.0	0.92	
	Peer support for academic work	Parents	98	88.4	94.8	100.0	0.78	
	Peer support for academic work	Students		50.4	73.8	97.2		
•	Peer support for academic work	Combined	98				0.85	4.40
Section Results:			96%					**4.24**

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Framework Elements - Survey Scoring Appendix Magnet School of Math, Science and Design Technology

			City Range				
		Survey % Positive	Bottom of Range	City Avg	Top of Range	Percent of Range	Score
Effective School Leadership							
• Inclusive principal leadership	Parents	95	79.3	90.9	100.0	0.77	4.08
Teacher influence	Teachers	70	28.8	60.8	92.8	0.65	3.60
Program coherence	Teachers	71	60.0	85.2	100.0	0.27	2.08
Principal instructional leadership	Teachers	82	61.6	87.0	100.0	0.53	3.12
Section Results:		80%					**3.24**
Strong Family Community Ties							
Teacher outreach to parents:							
Teacher outreach to parents	Teachers	96	84.5	94.5	100.0	0.76	
Teacher outreach to parents	Parents	95	86.0	92.6	99.2	0.75	
• Teacher outreach to parents	Combined	96				0.76	4.04
• Parent involvement in the schools	Parents	89	62.4	76.6	90.8	0.95	4.80
Section Results:		93%					**4.44**
Trust							
• Parent-teacher trust	Parents	97	90.9	95.3	99.7	0.75	4.00
• Parent-principal trust	Parents	95	82.7	93.3	100.0	0.75	4.00
Student-teacher trust	Students		64.6	85.2	100.0		
Teacher-principal trust	Teachers	80	56.4	85.0	100.0	0.55	3.20
Teacher-teacher trust	Teachers	92	74.1	90.5	100.0	0.69	3.76
Section Results:		91%					**3.76**

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Targets for 2015-16

Magnet School of Math, Science and Design Technolo

These tables show the values needed in 2015-16 for the school to achieve a rating of Exceeding Target, Meeting Target, Approaching Target, or Not Meeting Target on each metric.

Student Achievement Metrics	2014-15 School Value	2015-16 Targets			
		Not Meeting Target	Approaching Target	Meeting Target	Exceeding Target
State Test Results - ELA*					
Average Student Proficiency	3.00	2.75 or lower	2.76 to 2.86	2.87 to 2.94	2.95 or higher
Average Student Proficiency - School's Lowest Third	2.35	2.07 or lower	2.08 to 2.20	2.21 to 2.29	2.30 or higher
Percentage of Students at Level 3 or 4	54.7%	40.6% or lower	40.7% to 46.1%	46.2% to 50.2%	50.3% or higher
State Test Results - Math*					
Average Student Proficiency	3.28	2.92 or lower	2.93 to 3.08	3.09 to 3.19	3.20 or higher
Average Student Proficiency - School's Lowest Third	2.55	2.10 or lower	2.11 to 2.27	2.28 to 2.40	2.41 or higher
Percentage of Students at Level 3 or 4	66.8%	48.9% or lower	49.0% to 56.2%	56.3% to 61.7%	61.8% or higher
MS Adjusted Core Course Pass Rate of Former Students	96.8%	88.4% or lower	88.5% to 91.4%	91.5% to 93.6%	93.7% or higher

Closing the Achievement Gap Metrics*	2014-15 School Value	2015-16 Targets			
		Not Meeting Target	Approaching Target	Meeting Target	Exceeding Target
ELA - Average Proficiency Rating					
Self-Contained	1.77	1.79 or lower	1.80 to 1.87	1.88 to 1.94	1.95 or higher
Integrated Co-Teaching	2.17	2.14 or lower	2.15 to 2.25	2.26 to 2.34	2.35 or higher
SETSS	2.37	1.98 or lower	1.99 to 2.11	2.12 to 2.20	2.21 or higher
ELL	2.26	2.27 or lower	2.28 to 2.41	2.42 to 2.51	2.52 or higher
Lowest Third Citywide	2.08	1.91 or lower	1.92 to 1.98	1.99 to 2.03	2.04 or higher
Black and Hispanic Males in Lowest Third Citywide	1.93	1.86 or lower	1.87 to 1.93	1.94 to 1.99	2.00 or higher
Math - Average Proficiency Rating					
Self-Contained	1.96	1.89 or lower	1.90 to 2.03	2.04 to 2.13	2.14 or higher
Integrated Co-Teaching	2.44	2.37 or lower	2.38 to 2.55	2.56 to 2.68	2.69 or higher
SETSS	2.46	2.20 or lower	2.21 to 2.37	2.38 to 2.51	2.52 or higher
ELL	2.71	2.52 or lower	2.53 to 2.71	2.72 to 2.86	2.87 or higher
Lowest Third Citywide	2.06	1.94 or lower	1.95 to 2.02	2.03 to 2.08	2.09 or higher
Black and Hispanic Males in Lowest Third Citywide	1.81	1.87 or lower	1.88 to 1.96	1.97 to 2.02	2.03 or higher
ELL Progress	62.9%	50.3% or lower	50.4% to 60.3%	60.4% to 67.9%	68.0% or higher

*To earn additional points from the Closing the Achievement Gap section on the 2015-16 School Quality Reports, the school must meet the targets below and have a population percentage (of the relevant high-need group) that is not more than one standard deviation below the citywide average.

Supportive Environment Metrics	2014-15 School Value	2015-16 Targets			
		Not Meeting Target	Approaching Target	Meeting Target	Exceeding Target
Percentage of Students with 90%+ Attendance	93.2%	80.9% or lower	81.0% to 85.8%	85.9% to 89.4%	89.5% or higher
Movement of Students with Disabilities to Less Restrictive Environments	0.12	0.11 or lower	0.12 to 0.17	0.18 to 0.23	0.24 or higher