

2014-15 School Quality Guide / MS

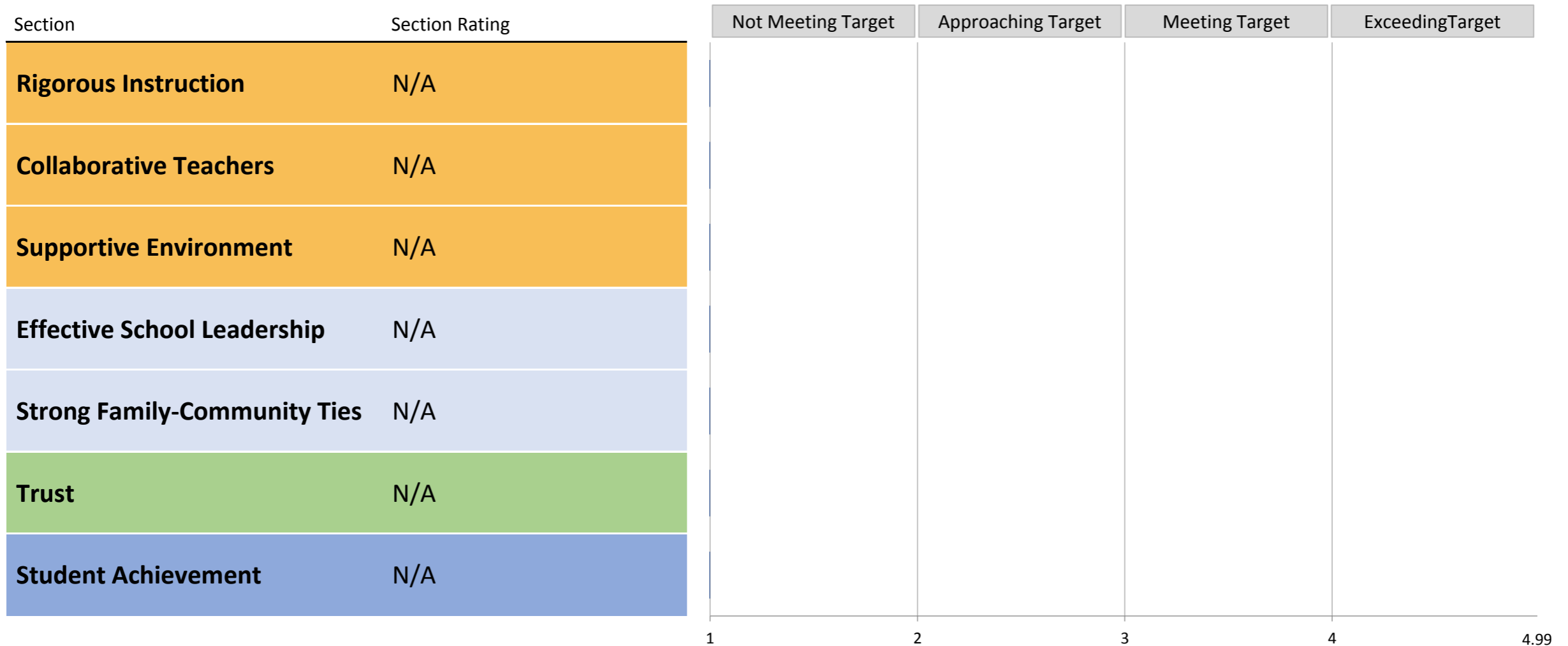
Summary of Section Ratings

18K763

Brooklyn Science and Engineering Academy

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 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: Good Standing

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>

Student Enrollment

Grade	2012 - 2013	2013 - 2014	2014 - 2015
Grade 6	-	-	78
All students	-	-	78

Student Demographics

	2012 - 2013	2013 - 2014	2014 - 2015
% English Language Learners	-	-	1%
% Free Lunch Eligible	-	-	60%
% Student with IEPs	-	-	15%
% Student with IEPs (less than 20% time)	-	-	5%
% HRA Eligible	-	-	41%
% Temporary Housing	-	-	12%
% Asian	-	-	0%
% Black	-	-	99%
% Hispanic	-	-	1%
% White	-	-	0%
% Other	-	-	0%
Average Incoming ELA Proficiency	-	-	2.34
Average Incoming Math Proficiency	-	-	2.49

Student Achievement Rating Student Achievement Score

Student Achievement Metrics	n	2014-15 School Value	Bottom of Target Range	2014-15 Targets			Top of Target Range	Metric Score	Weight Pct
				Approaching Target	Meeting Target	Exceeding Target			
State Test Results - ELA									
Average Student Proficiency	78	2.39							0.00%
Percentage of Students at Level 3 or 4	78	10.3%							0.00%
Median Adjusted Growth Percentile	74	63.0							0.00%
Median Adjusted Growth Percentile - School's Lowest Third	29	72.0							0.00%
State Test Results - Math									
Average Student Proficiency	77	2.27							0.00%
Percentage of Students at Level 3 or 4	77	7.8%							0.00%
Median Adjusted Growth Percentile	73	47.0							0.00%
Median Adjusted Growth Percentile - School's Lowest Third	29	56.0							0.00%
Core Course Pass Rates									
ELA	78	96.2%							0.00%
Math	78	91.0%							0.00%
Science	78	98.7%							0.00%
Social Studies	78	97.4%							0.00%
Percent of 8th Graders Earning HS Credit									0.00%
9th Grade Adjusted Credit Accumulation of Former 8th Graders									0.00%

Weighted Average Score

Closing the Achievement Gap (CtAG) Metrics	n	2014-15 School Population %	Population % of Range	2014-15 School Value	Bottom of Target Range	2014-15 Targets			Top of Target Range	Metric Score	Extra Points Possible	Extra Points Earned
						Approaching Target	Meeting Target	Exceeding Target				
ELA - Percent at Level 3 or 4												
Self-Contained	4	5.1%	26.4%								0.030	0.000
Integrated Co-Teaching	4	5.1%	28.0%								0.030	0.000
SETSS	5	6.4%	68.8%	0.0%							0.030	0.000
Math - Percent at Level 3 or 4												
Self-Contained	4	5.2%	27.5%								0.030	0.000
Integrated Co-Teaching	4	5.2%	28.7%								0.030	0.000
SETSS	4	5.2%	56.5%								0.030	0.000
ELA - Percent at 75th+ Growth Percentile												
ELL	3	4.1%	9.2%								0.030	0.000
Lowest Third Citywide	30	40.5%	50.8%	50.0%							0.030	0.000
Black and Hispanic Males in Lowest Third Citywide	23	31.1%	69.6%	52.2%							0.030	0.000
SC/ICT/SETSS	13	17.6%	37.1%	30.8%							0.030	0.000
Math - Percent at 75th+ Growth Percentile												
ELL	3	4.1%	8.5%								0.030	0.000
Lowest Third Citywide	23	31.5%	38.4%	21.7%							0.030	0.000
Black and Hispanic Males in Lowest Third Citywide	15	20.5%	46.1%	26.7%							0.030	0.000
SC/ICT/SETSS	12	16.4%	34.5%	8.3%							0.030	0.000
ELL Progress	1	1.3%	3.6%								0.030	0.000

CtAG Additional Points

Overall Student Achievement Score

- 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).

	Metric Value	Metric Score	Weight Pct
Rigorous Instruction			
Quality Review 1.1	Well Developed	4.99	
Quality Review 1.2	Proficient	3.40	
Quality Review 2.2	Well Developed	4.99	
NYC School Survey - Rigorous Instruction	98%	4.72	
Section Rating:	Section Score:		

Collaborative Teachers			
Quality Review 4.2	Proficient	3.40	
NYC School Survey - Collaborative Teachers	100%	4.96	
Section Rating:	Section Score:		

Supportive Environment			
Quality Review 3.4	Well Developed	4.99	
NYC School Survey - Supportive Environment	95%	4.60	
Percentage of students with 90%+ attendance			
EMS	89.9%		
HS			
Overall	89.9%		
Movement of students with disabilities to less restrictive environments			
EMS	0.08		
HS			
Overall	0.08		
Section Rating:	Section Score:		

Effective School Leadership			
NYC School Survey - Effective School Leadership	98%	4.76	
Section Rating:	Section Score:		

Strong Family-Community Ties			
NYC School Survey - Strong Family-Community Ties	81%	3.64	
Section Rating:	Section Score:		

Trust			
NYC School Survey - Trust	97%	4.52	
Section Rating:	Section Score:		

		Survey % Positive	City Range			Percent of Range	Score	
			Bottom of Range	City Avg	Top of Range			
Rigorous Instruction								
•	Common Core shifts in literacy	Teachers	100	79.4	91.4	100.0	1.00	4.99
	Common Core shifts in math	Teachers	92	68.9	87.1	100.0	0.73	3.92
•	Course clarity	Students	98	81.3	89.7	98.1	1.00	4.99
•	Quality of student discussion	Teachers	100	53.2	78.4	100.0	1.00	4.99
Section Results:			98%					4.72
Collaborative Teachers								
Cultural awareness:								
	Cultural awareness	Teachers	100	84.5	94.1	100.0	1.00	
	Cultural awareness	Parents	95	87.1	93.3	99.5	0.75	
	Cultural awareness	Students	96	70.6	84.2	97.8	0.92	
•	Cultural awareness	Combined	97				0.89	4.56
•	Inclusive classroom instruction	Teachers	100	81.7	93.3	100.0	1.00	4.99
•	Quality of professional development	Teachers	100	54.0	77.4	100.0	1.00	4.99
•	School commitment	Teachers	100	59.7	84.3	100.0	1.00	4.99
•	Innovation	Teachers	100	65.8	85.2	100.0	1.00	4.99
•	Reflective dialogue	Teachers	100	86.6	95.8	100.0	1.00	4.99
•	Peer collaboration	Teachers	100	76.7	91.9	100.0	1.00	4.99
•	Focus on student learning	Teachers	100	68.4	88.4	100.0	1.00	4.99
•	Collective responsibility	Teachers	100	57.5	82.3	100.0	1.00	4.99
Section Results:			100%					4.96
Supportive Environment								
Safety:								
	Safety	Teachers						
	Safety	Students	92	67.5	82.9	98.3	0.80	
•	Safety	Combined	92				0.80	4.20
Classroom behavior:								
	Classroom behavior	Teachers						
	Classroom behavior	Students	94	63.4	79.2	95.0	0.95	
•	Classroom behavior	Combined	94				0.95	4.80
•	Social-emotional measure	Teachers	100	84.7	95.3	100.0	1.00	4.99
•	Peer interactions	Students	96	67.5	80.7	93.9	1.00	4.99
	Next-level guidance	Students	93	76.9	88.3	99.7	0.72	3.88
Press toward academic achievement:								
	Press toward academic achievement	Teachers						
	Press toward academic achievement	Students	95	80.6	88.2	95.8	0.94	
•	Press toward academic achievement	Combined	95				0.94	4.76
•	Personal attention and support	Students	95	74.1	85.5	96.9	0.90	4.60
Peer support for academic work:								
	Peer support for academic work	Teachers						
	Peer support for academic work	Parents	95	76.8	88.6	100.0	0.78	
	Peer support for academic work	Students	87	48.0	66.6	85.2	1.00	
•	Peer support for academic work	Combined	91				0.89	4.56
Section Results:			95%					4.60

		Survey % Positive	City Range			Percent of Range	Score
			Bottom of Range	City Avg	Top of Range		
Effective School Leadership							
• Inclusive principal leadership	Parents	96	82.1	90.7	99.3	0.81	4.24
• Teacher influence	Teachers	97	34.5	67.1	99.7	0.96	4.84
• Program coherence	Teachers	100	60.8	85.2	100.0	1.00	4.99
• Principal instructional leadership	Teachers	100	67.2	88.0	100.0	1.00	4.99
Section Results:		98%					4.76
Strong Family Community Ties							
Teacher outreach to parents:							
	Teacher outreach to parents	Teachers	100	79.9	92.5	100.0	1.00
	Teacher outreach to parents	Parents	94	81.6	90.6	99.6	0.71
•	Teacher outreach to parents	Combined	97			0.85	4.40
	Parent involvement in the schools	Parents	65	47.1	66.3	85.5	0.46
Section Results:		81%					3.64
Trust							
•	Parent-teacher trust	Parents	96	88.9	94.3	99.7	0.75
•	Parent-principal trust	Parents	97	88.6	94.8	100.0	0.75
•	Student-teacher trust	Students	93	69.2	82.0	94.8	0.92
•	Teacher-principal trust	Teachers	100	63.2	87.4	100.0	1.00
•	Teacher-teacher trust	Teachers	100	74.2	90.6	100.0	1.00
Section Results:		97%					4.52

2014-15 School Quality Reports / MS
Targets for 2015-16

18K763

Brooklyn Science and Engineering Academy

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	2.39	2.39 or lower	2.40 to 2.46	2.47 to 2.52	2.53 or higher
Average Student Proficiency - School's Lowest Third	2.03	1.97 or lower	1.98 to 2.06	2.07 to 2.13	2.14 or higher
Percentage of Students at Level 3 or 4	10.3%	17.6% or lower	17.7% to 21.3%	21.4% to 24.3%	24.4% or higher
State Test Results - Math*					
Average Student Proficiency	2.27	2.38 or lower	2.39 to 2.50	2.51 to 2.61	2.62 or higher
Average Student Proficiency - School's Lowest Third	1.95	1.95 or lower	1.96 to 2.07	2.08 to 2.16	2.17 or higher
Percentage of Students at Level 3 or 4	7.8%	18.6% or lower	18.7% to 24.4%	24.5% to 29.1%	29.2% or higher
Core Course Pass Rates					
ELA	96.2%	78.0% or lower	78.1% to 83.2%	83.3% to 87.4%	87.5% or higher
Math	91.0%	81.1% or lower	81.2% to 85.5%	85.6% to 89.1%	89.2% or higher
Science	98.7%	81.9% or lower	82.0% to 86.1%	86.2% to 89.6%	89.7% or higher
Social Studies	97.4%	75.7% or lower	75.8% to 81.4%	81.5% to 86.0%	86.1% or higher

Percent of 8th Graders Earning HS Credit

9th Grade Adjusted Credit Accumulation of Former 8th Graders

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		1.74 or lower	1.75 to 1.80	1.81 to 1.89	1.90 or higher
Integrated Co-Teaching		2.03 or lower	2.04 to 2.11	2.12 to 2.17	2.18 or higher
SETSS	2.08	2.05 or lower	2.06 to 2.16	2.17 to 2.25	2.26 or higher
ELL		2.08 or lower	2.09 to 2.19	2.20 to 2.29	2.30 or higher
Lowest Third Citywide	2.04	1.92 or lower	1.93 to 1.97	1.98 to 2.01	2.02 or higher
Black and Hispanic Males in Lowest Third Citywide	2.06	1.87 or lower	1.88 to 1.92	1.93 to 1.99	2.00 or higher
Math - Average Proficiency Rating					
Self-Contained		1.70 or lower	1.71 to 1.79	1.80 to 1.89	1.90 or higher
Integrated Co-Teaching		1.96 or lower	1.97 to 2.08	2.09 to 2.18	2.19 or higher
SETSS		1.97 or lower	1.98 to 2.13	2.14 to 2.25	2.26 or higher
ELL		2.15 or lower	2.16 to 2.31	2.32 to 2.44	2.45 or higher
Lowest Third Citywide	1.89	1.87 or lower	1.88 to 1.94	1.95 to 2.00	2.01 or higher
Black and Hispanic Males in Lowest Third Citywide	1.89	1.84 or lower	1.85 to 1.90	1.91 to 1.99	2.00 or higher
ELL Progress		44.0% or lower	44.1% to 53.8%	53.9% to 61.8%	61.9% 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	89.9%	74.9% or lower	75.0% to 80.8%	80.9% to 85.6%	85.7% or higher
Movement of Students with Disabilities to Less Restrictive Environments	0.08	0.17 or lower	0.18 to 0.27	0.28 to 0.36	0.37 or higher

* If the participation in state tests is low, the targets may be adjusted to reflect the students at the school that actually take the tests.