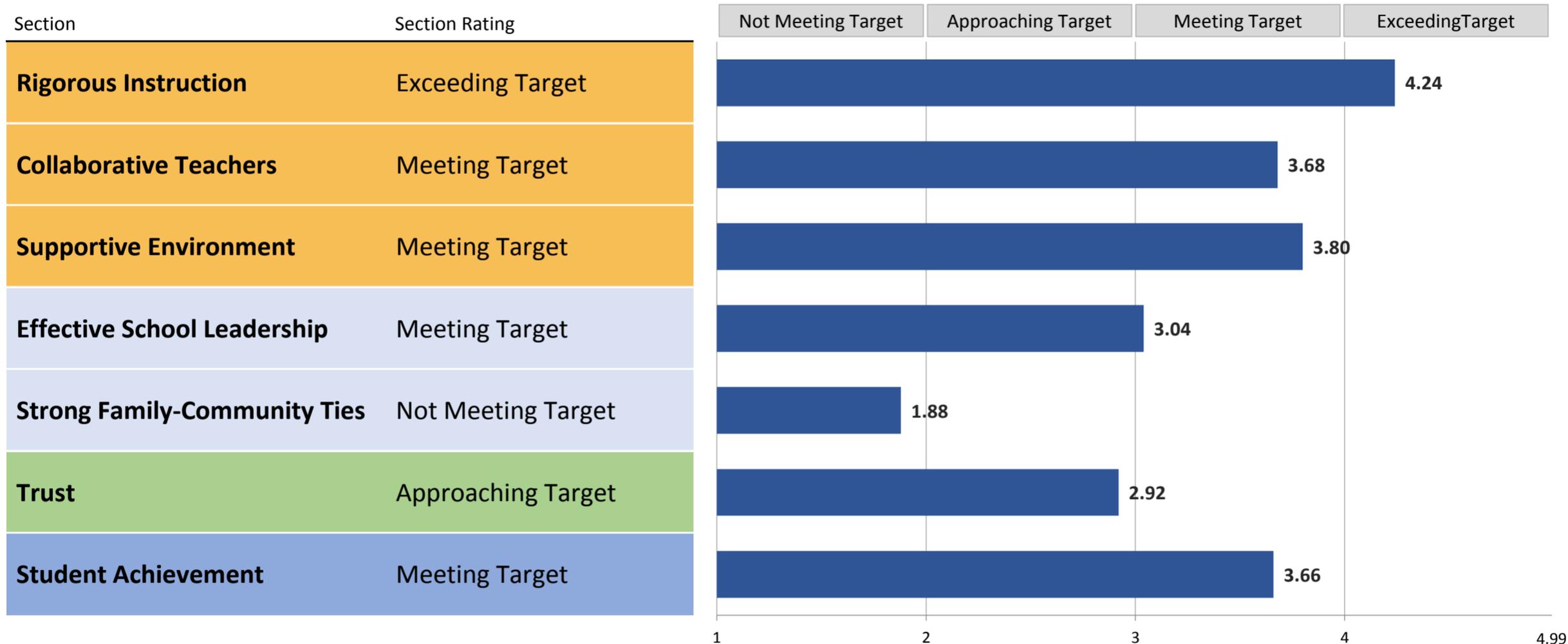


Framework for Great Schools

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 9	391	420	408
Grade 10	373	396	428
Grade 11	406	371	395
Grade 12	447	401	372
All students	1617	1588	1603

Student Demographics

	2012 - 2013	2013 - 2014	2014 - 2015
% English Language Learners	3%	4%	3%
% Free Lunch Eligible	72%	72%	72%
% Student with IEPs	8%	8%	8%
% Student with IEPs (less than 20% time)	2%	1%	1%
% Overage Under-credited	1%	1%	1%
% HRA Eligible	-	-	52%
% Temporary Housing	-	-	6%
% Asian	20%	19%	19%
% Black	19%	19%	21%
% Hispanic	58%	57%	54%
% White	2%	3%	4%
% Other	0%	1%	2%
Average Incoming ELA Proficiency	3.13	3.03	3.05
Average Incoming Math Proficiency	3.68	3.17	3.14

2014-15 School Quality Guide / HS
Student Achievement Scoring Appendix

Student Achievement Rating Meeting Target	Student Achievement Score 3.66
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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			
Credit Accumulation									
● Percent of Students Earning 10+ Credits in 1st Year	404	95.8%	77.2%	86.9%	90.7%	94.3%	100.0%	4.26	4.17%
● Percent of Students in School's Lowest Third Earning 10+ Credits in 1st Year	130	90.0%	56.4%	72.0%	80.2%	87.9%	100.0%	4.17	4.17%
● Percent of Students Earning 10+ Credits in 2nd Year	422	93.1%	72.0%	83.6%	88.4%	92.9%	100.0%	4.03	4.17%
● Percent of Students in School's Lowest Third Earning 10+ Credits in 2nd Year	135	86.7%	50.8%	68.4%	77.6%	86.3%	100.0%	4.03	4.17%
Percent of Students Earning 10+ Credits in 3rd Year	396	87.1%	64.8%	77.4%	84.0%	90.2%	100.0%	3.50	4.17%
Percent of Students in School's Lowest Third Earning 10+ Credits in 3rd Year	125	78.4%	48.5%	66.5%	76.3%	85.4%	99.7%	3.23	4.17%
Regents Performance									
Average Completion Rate for Remaining Regents	779	87.6%	57.4%	76.3%	83.1%	89.5%	98.9%	3.70	4.17%
Weighted Regents Pass Rate - ELA	454	1.11	0.71	0.94	1.09	1.23	1.44	3.14	4.17%
Weighted Regents Pass Rate - Math	1021	1.43	0.88	1.16	1.30	1.44	1.65	3.93	4.17%
Weighted Regents Pass Rate - Science	949	1.62	0.69	1.14	1.42	1.69	2.11	3.74	4.17%
Weighted Regents Pass Rate - Global History	472	1.06	0.70	0.92	1.03	1.14	1.31	3.27	4.17%
● Weighted Regents Pass Rate - U.S. History	349	1.19	0.69	0.94	1.09	1.23	1.46	4.00	4.17%
Graduation / Diploma									
4-Year Graduation Rate	363	95.0%	73.7%	87.1%	92.2%	95.7%	100.0%	3.80	6.25%
6-Year Graduation Rate	446	93.0%	79.5%	89.7%	93.7%	96.6%	100.0%	2.83	6.25%
4-Year Weighted Diploma Rate	363	245.5%	156.8%	200.1%	238.1%	265.0%	295.6%	3.28	6.25%
6-Year Weighted Diploma Rate	446	239.8%	152.8%	194.3%	234.8%	263.5%	296.3%	3.17	6.25%
College and Career Readiness									
● College and Career Preparatory Course Index	363	86.2%	30.3%	45.5%	63.2%	77.7%	93.8%	4.53	5.00%
● 4-Year College Readiness Index	363	80.4%	19.3%	31.0%	49.4%	64.4%	87.0%	4.71	5.00%
6-Year College Readiness Index with Persistence	446	82.7%	47.3%	63.5%	76.2%	86.5%	97.7%	3.63	5.00%
Postsecondary Enrollment Rate - 6 Months	393	78.6%	51.2%	66.4%	77.9%	87.3%	97.6%	3.07	5.00%
Postsecondary Enrollment Rate - 18 Months	446	85.2%	60.1%	73.4%	82.8%	90.4%	99.1%	3.32	5.00%
								Weighted Average Score	3.66

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				
Four-Year Weighted Diploma Rate												
English Language Learners	21	5.8%	10.4%	264.3%	25.9%	103.0%	163.9%	225.7%	320.1%		0.036	0.000
Self-Contained / ICT / SETSS	16	4.4%	11.2%	509.4%	0.0%	110.0%	197.0%	285.2%	420.0%		0.036	0.000
Lowest Third Citywide	5	1.4%	2.1%	300.0%	0.0%	71.2%	127.5%	184.6%	271.8%		0.036	0.000
Black / Hispanic Males in Lowest Third Citywide	1	0.3%	0.8%		0.0%	65.3%	116.9%	169.2%	249.2%		0.036	0.000
College and Career Readiness												
Students in Lowest Third Citywide, College and Career Preparatory Course Index	5	1.4%	2.1%	20.0%	0.0%	7.3%	13.0%	18.9%	27.8%		0.036	0.000
Students in Lowest Third Citywide, 4-Year College Readiness Index	5	1.4%	2.1%	60.0%	0.0%	1.4%	2.5%	3.7%	5.4%		0.036	0.000
Students in the Lowest Third Citywide, Postsecondary Enrollment Rate - 6 Months	23	5.9%	9.7%	43.5%	0.0%	11.4%	20.4%	29.5%	43.4%		0.036	0.000
											CtAG Additional Points	0.00
											Overall Student Achievement Score	3.66

- 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	Proficient	3.40	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%	3.80	34%
Section Rating: Exceeding Target	Section Score:	4.24	

Collaborative Teachers			
Quality Review 4.2	Proficient	3.40	50%
NYC School Survey - Collaborative Teachers	92%	3.92	50%
Section Rating: Meeting Target	Section Score:	3.68	

Supportive Environment			
Quality Review 3.4	Well Developed	4.99	30%
NYC School Survey - Supportive Environment	85%	3.52	35%
Percentage of students with 90%+ attendance			
EMS			
HS	81.9%	3.08	
Overall	81.9%	3.08	30%
Movement of students with disabilities to less restrictive environments			
EMS			
HS	0.40	2.64	
Overall	0.40	2.64	5%
Section Rating: Meeting Target	Section Score:	3.80	

Effective School Leadership			
NYC School Survey - Effective School Leadership	83%	3.04	100%
Section Rating: Meeting Target	Section Score:	3.04	

Strong Family-Community Ties			
NYC School Survey - Strong Family-Community Ties	65%	1.88	100%
Section Rating: Not Meeting Target	Section Score:	1.88	

Trust			
NYC School Survey - Trust	86%	2.92	100%
Section Rating: Approaching Target	Section Score:	2.92	

		Survey % Positive	City Range			Percent of Range	Score	
			Bottom of Range	City Avg	Top of Range			
Rigorous Instruction								
	Common Core shifts in literacy	Teachers	91	76.8	89.4	100.0	0.61	3.44
•	Common Core shifts in math	Teachers	97	69.2	85.8	100.0	0.91	4.64
	Course clarity	Students	85	77.5	86.9	96.3	0.39	2.56
•	Quality of student discussion	Teachers	94	55.8	77.8	99.8	0.87	4.48
Section Results:			92%					3.80
Collaborative Teachers								
Cultural awareness:								
	Cultural awareness	Teachers	96	85.4	94.4	100.0	0.75	
	Cultural awareness	Parents	86	82.3	91.9	100.0	0.25	
	Cultural awareness	Students	79	66.6	80.6	94.6	0.45	
	Cultural awareness	Combined	87				0.48	2.92
•	Inclusive classroom instruction	Teachers	96	82.7	93.1	100.0	0.77	4.08
•	Quality of professional development	Teachers	91	50.4	75.6	100.0	0.82	4.28
•	School commitment	Teachers	95	53.7	82.3	100.0	0.88	4.52
	Innovation	Teachers	88	65.9	84.5	100.0	0.64	3.56
•	Reflective dialogue	Teachers	97	85.1	95.3	100.0	0.80	4.20
	Peer collaboration	Teachers	93	75.2	90.6	100.0	0.72	3.88
•	Focus on student learning	Teachers	91	60.0	85.2	100.0	0.77	4.08
	Collective responsibility	Teachers	86	58.1	80.7	100.0	0.67	3.68
Section Results:			92%					3.92
Supportive Environment								
Safety:								
	Safety	Teachers						
	Safety	Students	91	67.5	82.9	98.3	0.75	
•	Safety	Combined	91				0.75	4.00
Classroom behavior:								
	Classroom behavior	Teachers						
	Classroom behavior	Students	87	68.3	82.1	95.9	0.66	
	Classroom behavior	Combined	87				0.66	3.64
•	Social-emotional measure	Teachers	99	86.6	95.2	100.0	0.91	4.64
	Peer interactions	Students	78	58.2	74.4	90.6	0.62	3.48
	Next-level guidance	Students	84	71.4	83.6	95.8	0.52	3.08
Press toward academic achievement:								
	Press toward academic achievement	Teachers						
	Press toward academic achievement	Students	89	76.3	86.1	95.9	0.67	
	Press toward academic achievement	Combined	89				0.67	3.68
	Personal attention and support	Students	77	69.0	81.8	94.6	0.32	2.28
Peer support for academic work:								
	Peer support for academic work	Teachers						
	Peer support for academic work	Parents	84	68.1	85.5	100.0	0.49	
	Peer support for academic work	Students	68	41.0	61.6	82.2	0.66	
	Peer support for academic work	Combined	76				0.58	3.32
Section Results:			85%					3.52

		Survey % Positive	City Range			Percent of Range	Score
			Bottom of Range	City Avg	Top of Range		
Effective School Leadership							
○ Inclusive principal leadership	Parents	77	76.5	88.9	100.0	0.01	1.04
Teacher influence	Teachers	84	40.6	71.4	100.0	0.72	3.88
Program coherence	Teachers	87	57.0	82.6	100.0	0.71	3.84
Principal instructional leadership	Teachers	82	58.2	84.6	100.0	0.58	3.32
Section Results:		83%					3.04
Strong Family Community Ties							
Teacher outreach to parents:							
Teacher outreach to parents	Teachers	92	75.2	89.0	100.0	0.66	
Teacher outreach to parents	Parents	78	76.7	88.1	99.5	0.07	
Teacher outreach to parents	Combined	85				0.37	2.48
○ Parent involvement in the schools	Parents	44	41.2	61.0	80.8	0.07	1.28
Section Results:		65%					1.88
Trust							
Parent-teacher trust	Parents	87	84.9	93.1	100.0	0.25	2.00
Parent-principal trust	Parents	87	84.5	93.7	100.0	0.25	2.00
Student-teacher trust	Students	82	68.5	81.1	93.7	0.54	3.16
Teacher-principal trust	Teachers	83	55.0	84.0	100.0	0.62	3.48
Teacher-teacher trust	Teachers	93	75.7	90.9	100.0	0.72	3.88
Section Results:		86%					2.92

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

04M435

Manhattan Center for Science and Mathematics

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
Credit Accumulation					
10+ Credits in 1st Year - All Students	95.8%	77.9% or lower	78.0% to 84.0%	84.1% to 88.3%	88.4% or higher
10+ Credits in 1st Year - School's Lowest Third	90.0%	63.5% or lower	63.6% to 73.7%	73.8% to 80.8%	80.9% or higher
10+ Credits in 2nd Year - All Students	93.1%	81.5% or lower	81.6% to 86.6%	86.7% to 90.2%	90.3% or higher
10+ Credits in 2nd Year - School's Lowest Third	86.7%	66.6% or lower	66.7% to 75.9%	76.0% to 82.4%	82.5% or higher
10+ Credits in 3rd Year - All Students	87.1%	79.1% or lower	79.2% to 84.9%	85.0% to 89.0%	89.1% or higher
10+ Credits in 3rd Year - School's Lowest Third	78.4%	64.4% or lower	64.5% to 74.3%	74.4% to 81.2%	81.3% or higher
Regents Performance					
Average Completion Rate for Remaining Regents	87.6%	75.2% or lower	75.3% to 82.0%	82.1% to 86.9%	87.0% or higher
Average Regents Score - English (non-Common Core)*	83.0	77.8 or lower	77.9 to 81.2	81.3 to 83.5	83.6 or higher
Average Regents Score - English (Common Core)*		79.9 or lower	80.0 to 84.9	85.0 to 88.2	88.3 or higher
Average Regents Score - Living Environment*	83.0	73.9 or lower	74.0 to 77.2	77.3 to 79.6	79.7 or higher
Average Regents Score - Global History*	80.0	75.5 or lower	75.6 to 79.1	79.2 to 81.5	81.6 or higher
Average Regents Score - US History*	90.0	79.9 or lower	80.0 to 84.9	85.0 to 87.7	87.8 or higher
Average Regents Score - Algebra I (Common Core)*	72.0	64.3 or lower	64.4 to 67.1	67.2 to 69.0	69.1 or higher
Graduation / Non-Dropout					
4-Year Graduation Rate	95.0%	82.1% or lower	82.2% to 87.1%	87.2% to 90.6%	90.7% or higher
6-Year Graduation Rate	93.0%	86.9% or lower	87.0% to 90.6%	90.7% to 93.1%	93.2% or higher
4-Year Non-Dropout Rate	97.8%	90.1% or lower	90.2% to 92.8%	92.9% to 94.7%	94.8% or higher
6-Year Non-Dropout Rate	94.8%	88.7% or lower	88.8% to 91.8%	91.9% to 94.0%	94.1% or higher
College and Career Readiness					
College and Career Preparatory Course Index	86.2%	59.2% or lower	59.3% to 69.9%	70.0% to 77.5%	77.6% or higher
4-Year College Readiness Index	80.4%	55.6% or lower	55.7% to 63.8%	63.9% to 69.6%	69.7% or higher
6-Year College Readiness Index with Persistence	82.7%	77.2% or lower	77.3% to 83.4%	83.5% to 87.8%	87.9% or higher
Postsecondary Enrollment Rate - 6 Months	78.6%	75.5% or lower	75.6% to 82.2%	82.3% to 86.9%	87.0% or higher
Postsecondary Enrollment Rate - 18 Months	85.2%	80.1% or lower	80.2% to 85.6%	85.7% to 89.4%	89.5% or higher

* Because it is not possible to accurately predict who will take the Regents exams in advance, the table above provides *estimated* targets for the Regents score metrics. These targets will be adjusted based on the students at the school who actually take the exams.

Closing the Achievement Gap Metrics**	2014-15 School Value	2015-16 Targets			
		Not Meeting Target	Approaching Target	Meeting Target	Exceeding Target
Four-Year Graduation Rate					
English Language Learners	90.5%	70.0% or lower	70.1% to 78.4%	78.5% to 84.2%	84.3% or higher
Self-Contained / ICT / SETSS	87.5%	64.6% or lower	64.7% to 74.3%	74.4% to 81.2%	81.3% or higher
Lowest Third Citywide					
Lowest Third Citywide	80.0%	60.5% or lower	60.6% to 71.1%	71.2% to 78.5%	78.6% or higher
Black / Hispanic Males in Lowest Third Citywide		55.4% or lower	55.5% to 67.3%	67.4% to 75.5%	75.6% or higher
College and Career Readiness of Students in Lowest Third Citywide					
College and Career Preparatory Course Index	20.0%	22.0% or lower	22.1% to 33.2%	33.3% to 41.0%	41.1% or higher
4-Year College Readiness Index	60.0%	5.8% or lower	5.9% to 8.8%	8.9% to 10.9%	11.0% or higher
Postsecondary Enrollment Rate - 6 Months	43.5%	37.2% or lower	37.3% to 45.9%	46.0% to 52.0%	52.1% 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	81.9%	74.5% or lower	74.6% to 81.6%	81.7% to 86.5%	86.6% or higher
Movement of Students with Disabilities to Less Restrictive Environments	0.40	0.37 or lower	0.38 to 0.54	0.55 to 0.67	0.68 or higher