

# 2014-15 School Quality Guide / HS

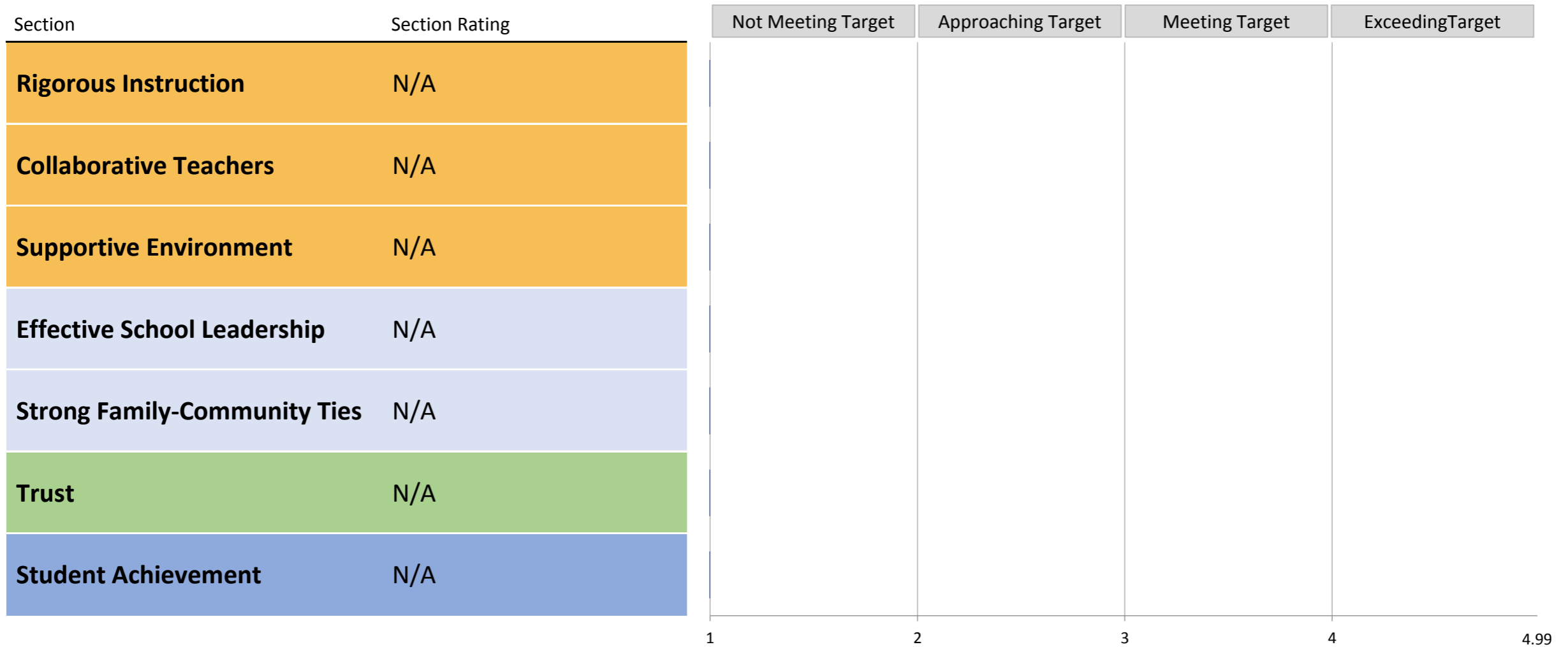
## Summary of Section Ratings

84K733

Math, Engineering, and Science Academy Charter High School

### 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: N/A

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**

<b>Grade</b>	<b>2012 - 2013</b>	<b>2013 - 2014</b>	<b>2014 - 2015</b>
Grade 9	-	131	122
Grade 10	-	-	122
<b>All students</b>	-	<b>131</b>	<b>244</b>

**Student Demographics**

	<b>2012 - 2013</b>	<b>2013 - 2014</b>	<b>2014 - 2015</b>
% English Language Learners	-	24%	14%
% Free Lunch Eligible	-	86%	87%
% Student with IEPs	-	17%	19%
% Student with IEPs (less than 20% time)	-	9%	7%
% Overage Under-credited	-	5%	4%
% HRA Eligible	-	-	62%
% Temporary Housing	-	-	6%
% Asian	-	1%	1%
% Black	-	22%	17%
% Hispanic	-	72%	75%
% White	-	2%	2%
% Other	-	4%	5%
Average Incoming ELA Proficiency	-	2.20	2.24
Average Incoming Math Proficiency	-	2.13	2.23

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			
<b>Credit Accumulation</b>									
● Percent of Students Earning 10+ Credits in 1st Year	120	91.7%	57.3%	68.8%	76.8%	84.3%	96.2%	4.62	11.11%
● Percent of Students in School's Lowest Third Earning 10+ Credits in 1st Year	37	75.7%	32.7%	49.9%	61.7%	72.8%	90.9%	4.16	11.11%
● Percent of Students Earning 10+ Credits in 2nd Year	121	93.4%	49.5%	61.7%	70.0%	77.8%	90.9%	4.99	11.11%
● Percent of Students in School's Lowest Third Earning 10+ Credits in 2nd Year	40	90.0%	25.2%	43.0%	55.1%	66.5%	85.6%	4.99	11.11%
Percent of Students Earning 10+ Credits in 3rd Year			45.1%	57.9%	66.8%	75.1%	89.1%		0.00%
Percent of Students in School's Lowest Third Earning 10+ Credits in 3rd Year			21.1%	39.2%	51.6%	63.3%	83.0%		0.00%
<b>Regents Performance</b>									
● Average Completion Rate for Remaining Regents	121	87.9%	23.9%	37.6%	45.8%	53.4%	69.9%	4.99	11.11%
● Weighted Regents Pass Rate - ELA	31	1.07	0.47	0.69	0.84	0.98	1.22	4.38	11.11%
● Weighted Regents Pass Rate - Math	200	1.44	0.38	0.70	0.93	1.15	1.50	4.83	11.11%
● Weighted Regents Pass Rate - Science	145	1.24	0.39	0.74	0.96	1.16	1.56	4.20	11.11%
● Weighted Regents Pass Rate - Global History	119	1.17	0.28	0.53	0.72	0.89	1.16	4.99	11.11%
Weighted Regents Pass Rate - U.S. History			0.27	0.59	0.81	1.02	1.35		0.00%
<b>Graduation / Diploma</b>									
4-Year Graduation Rate			47.3%	58.4%	69.2%	76.8%	87.6%		0.00%
6-Year Graduation Rate			57.8%	67.1%	76.6%	83.4%	92.3%		0.00%
4-Year Weighted Diploma Rate			107.6%	141.4%	174.1%	197.3%	232.0%		0.00%
6-Year Weighted Diploma Rate			102.4%	138.8%	177.9%	205.5%	241.4%		0.00%
<b>College and Career Readiness</b>									
College and Career Preparatory Course Index			0.0%	10.5%	24.2%	35.4%	51.5%		0.00%
4-Year College Readiness Index			0.0%	5.3%	12.3%	18.1%	28.0%		0.00%
6-Year College Readiness Index with Persistence			17.7%	28.1%	38.9%	47.7%	63.2%		0.00%
Postsecondary Enrollment Rate - 6 Months			22.7%	33.2%	44.7%	54.0%	69.0%		0.00%
Postsecondary Enrollment Rate - 18 Months			33.4%	43.4%	55.2%	64.7%	78.5%		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				
<b>Four-Year Weighted Diploma Rate</b>												
English Language Learners		0.0%	0.0%		25.9%	103.0%	163.9%	225.7%	320.1%		0.036	0.000
Self-Contained / ICT / SETSS		0.0%	0.0%		0.0%	110.0%	197.0%	285.2%	420.0%		0.036	0.000
Lowest Third Citywide		0.0%	0.0%		0.0%	71.2%	127.5%	184.6%	271.8%		0.036	0.000
Black / Hispanic Males in Lowest Third Citywide		0.0%	0.0%		0.0%	65.3%	116.9%	169.2%	249.2%		0.036	0.000
<b>College and Career Readiness</b>												
Students in Lowest Third Citywide, College and Career Preparatory Course Index		0.0%	0.0%		0.0%	7.3%	13.0%	18.9%	27.8%		0.036	0.000
Students in Lowest Third Citywide, 4-Year College Readiness Index		0.0%	0.0%		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		0.0%	0.0%		0.0%	11.4%	20.4%	29.5%	43.4%		0.036	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
<b>Rigorous Instruction</b>			
Quality Review 1.1			
Quality Review 1.2			
Quality Review 2.2			
NYC School Survey - Rigorous Instruction	90%	3.88	
<b>Section Rating:</b>	<b>Section Score:*</b>		

<b>Collaborative Teachers</b>			
Quality Review 4.2			
NYC School Survey - Collaborative Teachers	96%	4.48	
<b>Section Rating:</b>	<b>Section Score:*</b>		

<b>Supportive Environment</b>			
Quality Review 3.4			
NYC School Survey - Supportive Environment	91%	4.36	
Percentage of students with 90%+ attendance			
EMS			
HS	92.6%	4.96	
Overall	92.6%	4.96	
Movement of students with disabilities to less restrictive environments			
EMS			
HS	0.84	4.51	
Overall	0.84	4.51	
<b>Section Rating:</b>	<b>Section Score:*</b>		

<b>Effective School Leadership</b>			
NYC School Survey - Effective School Leadership	91%	3.96	
<b>Section Rating:</b>	<b>Section Score:</b>		

<b>Strong Family-Community Ties</b>			
NYC School Survey - Strong Family-Community Ties	79%	3.56	
<b>Section Rating:</b>	<b>Section Score:</b>		

<b>Trust</b>			
NYC School Survey - Trust	95%	4.44	
<b>Section Rating:</b>	<b>Section Score:</b>		

\* These scores have been rescaled so that schools without Quality Review ratings are measured on a comparable scale to schools with Quality Review ratings.

		Survey % Positive	City Range			Percent of Range	Score	
			Bottom of Range	City Avg	Top of Range			
<b>Rigorous Instruction</b>								
	Common Core shifts in literacy	Teachers	94	76.8	89.4	100.0	0.74	3.96
•	Common Core shifts in math	Teachers	93	69.2	85.8	100.0	0.76	4.04
•	Course clarity	Students	94	77.5	86.9	96.3	0.89	4.56
	Quality of student discussion	Teachers	78	55.8	77.8	99.8	0.50	3.00
<b>Section Results:</b>			90%					<b>3.88</b>
<b>Collaborative Teachers</b>								
Cultural awareness:								
	Cultural awareness	Teachers	97	85.4	94.4	100.0	0.78	
	Cultural awareness	Parents	94	82.3	91.9	100.0	0.66	
	Cultural awareness	Students	91	66.6	80.6	94.6	0.89	
•	Cultural awareness	Combined	94				0.78	4.12
•	Inclusive classroom instruction	Teachers	99	82.7	93.1	100.0	0.94	4.76
	Quality of professional development	Teachers	79	50.4	75.6	100.0	0.57	3.28
•	School commitment	Teachers	99	53.7	82.3	100.0	0.98	4.92
•	Innovation	Teachers	98	65.9	84.5	100.0	0.95	4.80
•	Reflective dialogue	Teachers	96	85.1	95.3	100.0	0.75	4.00
•	Peer collaboration	Teachers	98	75.2	90.6	100.0	0.92	4.68
•	Focus on student learning	Teachers	100	60.0	85.2	100.0	1.00	4.99
•	Collective responsibility	Teachers	97	58.1	80.7	100.0	0.93	4.72
<b>Section Results:</b>			96%					<b>4.48</b>
<b>Supportive Environment</b>								
Safety:								
	Safety	Teachers						
	Safety	Students	90	67.5	82.9	98.3	0.72	
	Safety	Combined	90				0.72	3.88
Classroom behavior:								
	Classroom behavior	Teachers						
	Classroom behavior	Students	92	68.3	82.1	95.9	0.84	
•	Classroom behavior	Combined	92				0.84	4.36
•	Social-emotional measure	Teachers	99	86.6	95.2	100.0	0.89	4.56
•	Peer interactions	Students	86	58.2	74.4	90.6	0.86	4.44
•	Next-level guidance	Students	94	71.4	83.6	95.8	0.91	4.64
Press toward academic achievement:								
	Press toward academic achievement	Teachers						
	Press toward academic achievement	Students	91	76.3	86.1	95.9	0.75	
•	Press toward academic achievement	Combined	91				0.75	4.00
•	Personal attention and support	Students	95	69.0	81.8	94.6	1.00	4.99
Peer support for academic work:								
	Peer support for academic work	Teachers						
	Peer support for academic work	Parents	91	68.1	85.5	100.0	0.72	
	Peer support for academic work	Students	75	41.0	61.6	82.2	0.81	
•	Peer support for academic work	Combined	83				0.77	4.08
<b>Section Results:</b>			91%					<b>4.36</b>

		Survey % Positive	City Range			Percent of Range	Score
			Bottom of Range	City Avg	Top of Range		
<b>Effective School Leadership</b>							
Inclusive principal leadership	Parents	91	76.5	88.9	100.0	0.60	3.40
• Teacher influence	Teachers	90	40.6	71.4	100.0	0.83	4.32
Program coherence	Teachers	89	57.0	82.6	100.0	0.74	3.96
• Principal instructional leadership	Teachers	92	58.2	84.6	100.0	0.80	4.20
<b>Section Results:</b>		91%					<b>3.96</b>
<b>Strong Family Community Ties</b>							
Teacher outreach to parents:							
Teacher outreach to parents	Teachers	90	75.2	89.0	100.0	0.60	
Teacher outreach to parents	Parents	93	76.7	88.1	99.5	0.70	
Teacher outreach to parents	Combined	91				0.65	3.60
Parent involvement in the schools	Parents	66	41.2	61.0	80.8	0.62	3.48
<b>Section Results:</b>		79%					<b>3.56</b>
<b>Trust</b>							
• Parent-teacher trust	Parents	97	84.9	93.1	100.0	0.83	4.32
• Parent-principal trust	Parents	98	84.5	93.7	100.0	0.84	4.36
• Student-teacher trust	Students	94	68.5	81.1	93.7	1.00	4.99
• Teacher-principal trust	Teachers	94	55.0	84.0	100.0	0.87	4.48
• Teacher-teacher trust	Teachers	94	75.7	90.9	100.0	0.75	4.00
<b>Section Results:</b>		95%					<b>4.44</b>

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

84K733

Math, Engineering, and Science Academy Charter Hig

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
<b>Credit Accumulation</b>					
10+ Credits in 1st Year - All Students	91.7%	71.3% or lower	71.4% to 79.3%	79.4% to 84.9%	85.0% or higher
10+ Credits in 1st Year - School's Lowest Third	75.7%	54.5% or lower	54.6% to 65.6%	65.7% to 73.4%	73.5% or higher
10+ Credits in 2nd Year - All Students	93.4%	68.7% or lower	68.8% to 76.2%	76.3% to 81.5%	81.6% or higher
10+ Credits in 2nd Year - School's Lowest Third	90.0%	52.1% or lower	52.2% to 62.7%	62.8% to 70.2%	70.3% or higher
10+ Credits in 3rd Year - All Students		64.7% or lower	64.8% to 72.3%	72.4% to 77.7%	77.8% or higher
10+ Credits in 3rd Year - School's Lowest Third		51.0% or lower	51.1% to 61.5%	61.6% to 68.9%	69.0% or higher
<b>Regents Performance</b>					
Average Completion Rate for Remaining Regents	87.9%	53.3% or lower	53.4% to 60.2%	60.3% to 65.0%	65.1% or higher
Average Regents Score - English (non-Common Core)*		69.4 or lower	69.5 to 72.7	72.8 to 75.1	75.2 or higher
Average Regents Score - English (Common Core)*	89.0	72.9 or lower	73.0 to 76.6	76.7 to 79.3	79.4 or higher
Average Regents Score - Living Environment*	76.0	65.3 or lower	65.4 to 68.6	68.7 to 71.0	71.1 or higher
Average Regents Score - Global History*	71.0	62.6 or lower	62.7 to 66.1	66.2 to 68.6	68.7 or higher
Average Regents Score - US History*		70.1 or lower	70.2 to 74.1	74.2 to 76.9	77.0 or higher
Average Regents Score - Algebra I (Common Core)*	65.0	59.7 or lower	59.8 to 62.5	62.6 to 64.9	65.0 or higher
<b>Graduation / Non-Dropout</b>					
4-Year Graduation Rate					
6-Year Graduation Rate					
4-Year Non-Dropout Rate					
6-Year Non-Dropout Rate					
<b>College and Career Readiness</b>					
College and Career Preparatory Course Index					
4-Year College Readiness Index					
6-Year College Readiness Index with Persistence					
Postsecondary Enrollment Rate - 6 Months					
Postsecondary Enrollment Rate - 18 Months					

\* 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
<b>Four-Year Graduation Rate</b>					
English Language Learners					
Self-Contained / ICT / SETSS					
<b>Lowest Third Citywide</b>					
Black / Hispanic Males in Lowest Third Citywide					
<b>College and Career Readiness of Students in Lowest Third Citywide</b>					
College and Career Preparatory Course Index					
4-Year College Readiness Index					
Postsecondary Enrollment Rate - 6 Months					

\*\*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	92.6%	61.2% or lower	61.3% to 68.5%	68.6% to 73.6%	73.7% or higher
Movement of Students with Disabilities to Less Restrictive Environments	0.84	0.35 or lower	0.36 to 0.53	0.54 to 0.65	0.66 or higher