Department of Education
Dennis M. Walcott, Chancellor

Progress Report 2010-11

Bronx Center for Science and Mathematics

PRINCIPAL:	Edward Tom
DBN:	09X260
ENROLLMENT:	423
SCHOOL TYPE:	High School
PEER INDEX:	2.78

(see p. 7 for more details on peer index)

OVERALL GRADE **A**

OVERALL SCORE **75.0** out of 100

PERCENTILE RANK **80**

This school's overall score is greater than or equal to that of 80 percent of High Schools.

Overall Grades - High School

GRADE	SCORE RANGE	% OF SCHOOLS
A	70.0 or higher	33% of schools
B	58.0 - 69.9	32% of schools
C	47.0 - 57.9	24% of schools
D	40.0 - 46.9	8% of schools
F	39.9 or lower	4% of schools

For high schools, grades are based on cut scores determined prior to the release of the Progress Report. Further, schools with a four year graduation rate in the top third citywide cannot receive a grade lower than a C. Schools in their first year, without a graduating class or in phase out receive a report with no grade or score.

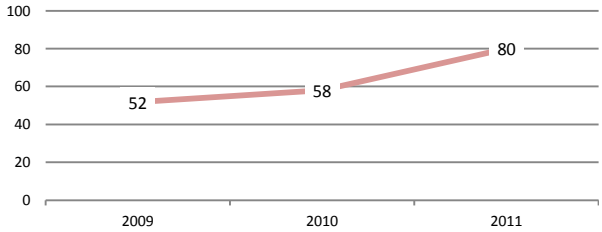
Overview

Each school's Progress Report (1) measures student year-to-year progress, (2) compares the school to peer schools and (3) rewards success in moving all children forward, especially children with the greatest needs. Strong Progress Report results are the basis for monetary rewards for school leaders, and poor results are an important factor in determining whether schools require intensive support or intervention. For more information, see schools.nyc.gov/community/planning/Support+and+Intervention.htm.

CATEGORY	SCORE	GRADE	DESCRIPTION
Student Progress	**43.5** out of 60	A	Student Progress measures the annual progress students make toward meeting the state's graduation requirements by earning course credits and passing state Regents exams.
Student Performance	**16.4** out of 25	B	Student Performance measures how many students graduated within 4 and 6 years of starting high school, and the types of diplomas they earned.
School Environment	**9.1** out of 15	B	School Environment measures student attendance and a survey of the school community rating academic expectations, safety and respect, communication, and engagement.
Closing the Achievement Gap	**6.0** (14 max)		Schools receive additional credit for exceptional graduation and/or Regents outcomes by students with disabilities, English Language Learners, and students who enter high school at the lowest performance level.
Overall Score	**75.0** out of 100	A	The overall grade is based on the total of all scores above, including additional credit for closing the achievement gap. Category scores may not add up to total score because of rounding.

Performance over time

Percentile rank of this school's overall Progress Report score for the past three years:



The Progress Report is a one-year snapshot of a school's performance. The Progress Report methodology has evolved over time, in response to school and community feedback, changes in state policy, and higher standards. For a description of methodology changes, visit schools.nyc.gov/ProgressReport.

Other accountability measures

These measures are separate from the Progress Report, and are an important part of school accountability in New York City and State.

Quality Review

The school's most recent Quality Review Score:

Well Developed

2009-10

The Quality Review is an observational evaluation conducted by an experienced educator, focused on how well a school is organized to educate its students.

State Accountability

The school's current status:

In Good Standing

2010-11

This status is determined by the New York State Department of Education under the No Child Left Behind Act.

GRADE **A**

SCORE 43.5

(out of 60)

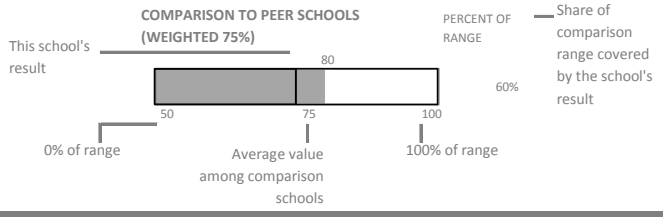
GRADE	SCORE RANGE
A	42.0 or higher
B	34.8 - 41.9
C	28.2 - 34.7
D	24.0 - 28.1
F	23.9 or lower

Student Progress represents 60% of the total score. The grade is based on the annual progress students make toward meeting the state's graduation requirements by earning course credits in core subjects and passing state Regents exams. Attention is given to all students in the school and particular emphasis is given to the one-third of students who entered high school at the lowest performance level.

	THIS SCHOOL'S RESULTS	COMPARISON TO PEER SCHOOLS (WEIGHTED 75%)	PERCENT OF PEER RANGE	COMPARISON TO CITY SCHOOLS (WEIGHTED 25%)	PERCENT OF CITY RANGE	POINTS POSSIBLE	POINTS EARNED
Credit Accumulation							
Pct. of Students Earning 10+ Credits in 1st Year (n=114)	92.1%	92.1% (71.2% – 87.0% – 100.0%)	72.6%	92.1% (45.5% – 75.4% – 100.0%)	85.5%	5.00	3.79
Pct. of Students in School's Lowest Third Earning 10+ Credits in 1st Year (n=38)	81.6%	81.6% (41.9% – 73.9% – 100.0%)	68.3%	81.6% (18.7% – 60.1% – 100.0%)	77.4%	5.00	3.53
Pct. of Students Earning 10+ Credits in 2nd Year (n=104)	93.3%	93.3% (68.8% – 84.4% – 100.0%)	78.5%	93.3% (41.4% – 71.2% – 100.0%)	88.6%	5.00	4.05
Pct. of Students in School's Lowest Third Earning 10+ Credits in 2nd Year (n=36)	80.6%	80.6% (41.9% – 71.5% – 100.0%)	66.6%	80.6% (15.9% – 56.3% – 96.7%)	80.1%	5.00	3.50
Pct. of Students Earning 10+ Credits in 3rd Year (n=104)	79.8%	79.8% (60.2% – 81.9% – 100.0%)	49.2%	79.8% (40.6% – 69.7% – 98.8%)	67.4%	5.00	2.69
Pct. of Students in School's Lowest Third Earning 10+ Credits in 3rd Year (n=35)	74.3%	74.3% (41.3% – 70.8% – 100.0%)	56.2%	74.3% (16.0% – 55.6% – 95.2%)	73.6%	5.00	3.03
Average Completion Rate for Remaining Regents (n=231)	80.1%	80.1% (39.7% – 66.5% – 93.3%)	75.4%	80.1% (6.0% – 47.0% – 88.0%)	90.4%	5.00	3.96
Weighted Regents Pass Rate							
English (n=202)	1.34	1.34 (0.94 – 1.22 – 1.50)	71.4%	1.34 (0.62 – 1.15 – 1.68)	67.9%	5.00	3.53
Mathematics (n=280)	2.01	2.01 (0.87 – 1.48 – 2.09)	93.4%	2.01 (0.49 – 1.30 – 2.11)	93.8%	5.00	4.68
Science (n=257)	1.76	1.76 (0.88 – 1.41 – 1.94)	83.0%	1.76 (0.47 – 1.31 – 2.15)	76.8%	5.00	4.07
Global History (n=124)	1.81	1.81 (0.79 – 1.42 – 2.05)	81.0%	1.81 (0.30 – 1.25 – 2.20)	79.5%	5.00	4.03
United States History (n=101)	1.25	1.25 (0.87 – 1.24 – 1.61)	51.4%	1.25 (0.50 – 1.14 – 1.78)	58.6%	5.00	2.66
					TOTAL POINTS	60.00	43.52

How To Interpret These Charts

To determine the number of points earned, this school's 2010-11 results on each metric are compared to the historical results of peer schools and all high schools citywide. The comparison to peer schools is worth 75% of the points for each metric and the comparison to all high schools citywide is worth 25% of the points. The bars represent the range of results for the peer and city comparison schools for 2006-07, 2007-08, 2008-09 and 2009-10 that are within two standard deviations of the average. The percent of the range that is shaded is the school's share of possible points. The share is multiplied by the weight (75% or 25%) and the possible points for the metric to determine the points earned.



Score Calculation Example

FORMULA	(	PERCENT OF PEER RANGE	x	0.75	+	PERCENT OF CITY RANGE	x	0.25	)	x	POINTS POSSIBLE	=	POINTS EARNED
EXAMPLE	(	60%	x	0.75	+	80%	x	0.25	)	x	5	=	3.25

GRADE **B**

SCORE 16.4

(out of 25)

GRADE	SCORE RANGE
A	17.5 or higher
B	14.5 - 17.4
C	11.7 - 14.4
D	10.0 - 11.6
F	9.9 or lower

Student Performance represents 25% of the total score. The Student Performance grade is based on how many students graduated within 4 years and 6 years of starting high school, and the types of diplomas these students earned.

	THIS SCHOOL'S RESULTS	COMPARISON TO PEER SCHOOLS (WEIGHTED 75%)	PERCENT OF PEER RANGE	COMPARISON TO CITY SCHOOLS (WEIGHTED 25%)	PERCENT OF CITY RANGE	POINTS POSSIBLE	POINTS EARNED
Graduation Rate							
Four Year Graduation Rate (n=98)	84.7%	84.7% (67.4% – 84.5% – 100.0%)	53.1%	84.7% (35.6% – 68.9% – 100.0%)	76.2%	6.25	3.68
Six Year Graduation Rate (n=90)	87.8%	87.8% (70.0% – 85.5% – 100.0%)	59.3%	87.8% (43.9% – 73.8% – 100.0%)	78.3%	6.25	4.00
Weighted Diploma Rate							
Four Year Weighted Diploma Rate (n=98)	201.0%	201.0% (122.2% – 180.7% – 239.2%)	67.4%	201.0% (41.9% – 143.2% – 244.5%)	78.5%	6.25	4.39
Six Year Weighted Diploma Rate (n=90)	192.2%	192.2% (107.6% – 171.8% – 236.0%)	65.9%	192.2% (45.9% – 140.7% – 235.5%)	77.2%	6.25	4.30
TOTAL POINTS						25.00	16.37

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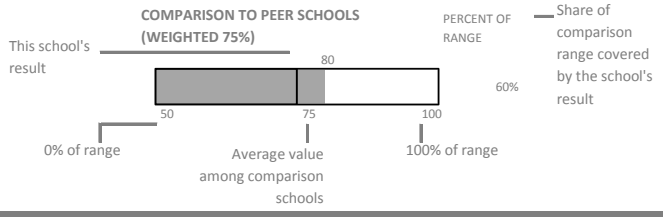

Score Calculation Example

FORMULA	(	PERCENT OF PEER RANGE	x	0.75	+	PERCENT OF CITY RANGE	x	0.25	)	x	POINTS POSSIBLE	=	POINTS EARNED
EXAMPLE	(	60%	x	0.75	+	80%	x	0.25	)	x	6.25	=	4.06

GRADE **B**

SCORE 9.1

(out of 15)

GRADE	SCORE RANGE
A	10.5 or higher
B	8.7 - 10.4
C	7.0 - 8.6
D	6.0 - 6.9
F	5.9 or lower

School Environment represents 15% of the total score. The School Environment grade is based on student attendance and results of the NYC School Survey, on which parents, teachers, and students rate academic expectations, safety and respect, communication, and engagement.

School Survey Results

	THIS SCHOOL'S RESULTS	COMPARISON TO PEER SCHOOLS (WEIGHTED 75%)	PERCENT OF PEER RANGE	COMPARISON TO CITY SCHOOLS (WEIGHTED 25%)	PERCENT OF CITY RANGE	POINTS POSSIBLE	POINTS EARNED
Academic Expectations	8.1	8.1 (6.1 – 7.5 – 8.9)	71.4%	8.1 (6.0 – 7.3 – 8.6)	80.8%	2.50	1.84
Communication	6.9	6.9 (4.9 – 6.5 – 8.1)	62.5%	6.9 (5.1 – 6.4 – 7.7)	69.2%	2.50	1.60
Engagement	7.3	7.3 (5.2 – 6.8 – 8.4)	65.6%	7.3 (5.1 – 6.6 – 8.1)	73.3%	2.50	1.69
Safety and Respect	7.8	7.8 (6.0 – 7.4 – 8.8)	64.3%	7.8 (5.6 – 7.1 – 8.6)	73.3%	2.50	1.66
Attendance Rate	90.5%	90.5% (87.5% – 91.5% – 95.5%)	37.5%	90.5% (74.2% – 86.0% – 97.8%)	69.1%	5.00	2.27
					TOTAL POINTS	15.00	9.06

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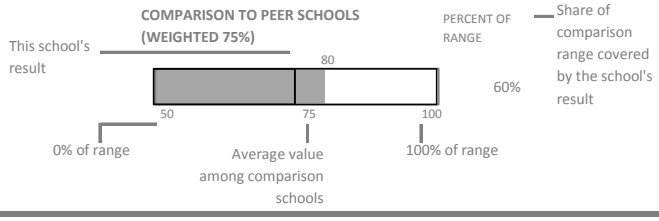

Score Calculation Example

FORMULA	(	PERCENT OF PEER RANGE	x	0.75	+	PERCENT OF CITY RANGE	x	0.25	)	x	POINTS POSSIBLE	=	POINTS EARNED
EXAMPLE	(	60%	x	0.75	+	80%	x	0.25	)	x	2.5	=	1.63

Schools receive additional credit for exceptional gains by students with disabilities, English Language Learners, and students with the lowest 8th grade proficiency citywide. A school earns full additional credit when its results are in the top 20% of schools citywide. It earns half credit when its results are in the top 40%. Additional Credit can only improve a school's Progress Report score. It cannot lower a school's score. High schools are eligible for points on 7 additional credit metrics, each of which is worth up to 2 points. In the table below, "." in "This School's Results" indicates that a school has fewer than 10 eligible students in one of the weighted diploma rate categories or fewer than 15 eligible students in one of the other categories.

CATEGORY	THIS SCHOOL'S RESULTS	TOP 20% CUTOFF	TOP 40% CUTOFF	POINTS EARNED
Four Year Weighted Diploma Rate				
English language learners (n=6)	.	175.0%	142.0%	.
Self-contained/CTT/SETSS (n=11)	272.7%	252.6%	188.9%	2.0
All Students in the lowest third citywide (n=13)	169.2%	153.3%	117.5%	2.0
Black/Hispanic males in the lowest third citywide (n=8)	.	151.2%	114.6%	.
Scored 75 or Higher on Regents				
Students in lowest third citywide, English (n=25)	32.0%	26.8%	19.6%	2.0
Students in lowest third citywide, Math (n=20)	5.0%	8.2%	5.6%	.
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Movement of students with disabilities to less restrictive environments (n=55)	0.51	0.89	0.70	.

TOTAL POINTS 6.0

High schools build the foundation of skills and knowledge students need to achieve postsecondary success. As we move toward the Common Core State Standards and the goal of ensuring that our students not only graduate from high school, but graduate ready for the demands of college or the workforce, the Progress Report is evolving to reward high schools whose students successfully engage in rigorous coursework, graduate having met the standards necessary to begin taking college courses for credit, and go on to enroll in college after graduation.

Three new college readiness measures are reported below as unscored metrics, and will be integrated into schools' Progress Report scores and grades beginning with the 2011-12 Progress Report. The peer and city averages represent school-level averages for peer high schools and all high schools citywide, and are provided for context.

College Preparatory Course Index

This metric measures the percentage of students in the 2011 cohort (all students who entered high school four years earlier) who have achieved any of the following:

- Scored 65+ on the Algebra II, Math B, Chemistry, or Physics Regents exam, or
- Scored 3+ on any Advanced Placement (AP) exam, or
- Scored 4+ on any International Baccalaureate (IB) exam, or
- Earned a grade of "C" or higher in a course for college credit (e.g. College Now, Early College)

Students meeting more than one of the requirements above will only be counted once in the numerator.

	THIS SCHOOL'S RESULT	PEER AVERAGE	CITY AVERAGE
College Preparatory Course Index (n=98)	63.3%	49.8%	29.8%

College Readiness Index

This metric measures the percentage of students in the 2011 cohort (all students who entered high school four years earlier) who graduated and met the Regents exam, SAT, and/or course standards for passing out of remedial coursework at the City University of New York (CUNY), by August 2011.

	THIS SCHOOL'S RESULT	PEER AVERAGE	CITY AVERAGE
College Readiness Index (n=98)	39.8%	38.3%	21.5%

College Enrollment Rate

This metric measures the percentage of students in the 2010 cohort (all students who entered high school four years earlier) who graduated and enrolled in a degree program at a two- or four-year college or university by December 31, 2010.

	THIS SCHOOL'S RESULT	PEER AVERAGE	CITY AVERAGE
College Enrollment Rate (n=101)	68.3%	71.8%	50.4%

PEER INDEX CALCULATION

The Peer Index is used to sort schools on the basis of student population. A lower Peer Index indicates a higher need population. The Peer Index operates on a 1.00-4.50 scale and is calculated using the following formula.

FORMULA	(	Average 8th grade English and Math proficiency	) -	(	2	x	% students with disabilities	) -	(	2	x	% in self-contained settings	) -	(	% students overage on entry to 9th grade	) =	PEER INDEX
FOR THIS SCHOOL	(	3.10	) -	(	2	x	11.6%	) -	(	2	x	2.6%	) -	(	3.3%	) =	2.78

PEER GROUP FOR: Bronx Center for Science and Mathematics

Each school's performance is compared to the performance of schools in its peer group. Peer schools are those New York City public schools with a student population most like this school's population, according to the peer index. Each high school has up to 40 peer schools.

DBN	SCHOOL	PEER INDEX	AVERAGE PROFICIENCY	% IEP	% SELF-CONTAINED	% OVERAGE
27Q262	Channel View School for Research	2.67	2.94	12.5%	0.0%	2.3%
07X495	University Heights Secondary School	2.67	2.83	6.1%	0.0%	4.1%
31R455	Tottenville High School	2.68	3.03	13.6%	3.9%	0.6%
02M630	Art and Design High School	2.68	2.96	10.8%	2.6%	0.8%
03M417	FRANK McCOURT HIGH SCHOOL	2.69	3.07	19.0%	0.0%	0.0%
09X413	Bronx High School for Medical Science	2.70	2.83	4.8%	0.4%	2.6%
24Q264	Academy of Finance and Enterprise	2.70	2.92	9.6%	0.0%	2.6%
84Q705	Renaissance Charter School, The	2.71	2.99	13.0%	0.0%	1.9%
02M413	School of the Future High School	2.72	3.07	17.0%	0.0%	0.8%
31R047	CSI High School for International Studies	2.73	3.02	14.1%	0.4%	0.4%
28Q620	Thomas A. Edison Career and Technical Education High School	2.73	3.11	11.7%	5.8%	2.9%
02M420	High School for Health Professions and Human Services	2.74	2.96	9.7%	0.0%	3.4%
02M531	Repertory Company High School for Theatre Arts	2.74	2.91	7.0%	0.5%	2.3%
09X324	Bronx Early College Academy for Teaching & Learning	2.74	2.97	8.8%	0.0%	5.1%
06M540	A. Philip Randolph Campus High School	2.75	2.95	5.7%	3.4%	2.3%
84X703	Bronx Prep Charter School	2.75	2.92	7.0%	0.0%	2.5%
28Q440	Forest Hills High School	2.76	3.06	10.5%	3.5%	1.9%
28Q896	Young Women's Leadership School, Queens	2.77	2.94	8.0%	0.0%	0.4%
84K356	Achievement First- Crown Heights Charter School	2.77	3.00	9.8%	0.0%	2.7%
25Q281	East-West School of International Studies	2.77	2.99	8.6%	0.0%	4.1%
09X260	**Bronx Center for Science and Mathematics**	**2.78**	**3.10**	**11.6%**	**2.6%**	**3.3%**
19K409	East New York Family Academy	2.79	2.96	7.9%	0.0%	1.0%
26Q430	Francis Lewis High School	2.81	3.18	11.2%	5.8%	3.5%
06M293	City College Academy of the Arts	2.81	3.07	11.9%	0.0%	2.9%
12X478	THE CINEMA SCHOOL	2.81	3.01	8.3%	0.0%	3.8%
21K468	Kingsborough Early College School	2.82	3.09	12.3%	0.0%	1.8%
17K546	High School for Public Service: Heroes of Tomorrow	2.82	2.94	4.7%	0.0%	2.0%
02M439	Manhattan Village Academy	2.85	3.03	8.8%	0.0%	0.7%
26Q415	Benjamin N. Cardozo High School	2.88	3.21	11.0%	4.4%	2.6%
04M610	Young Women's Leadership School	2.88	3.06	8.5%	0.0%	0.3%
05M499	Frederick Douglass Academy	2.93	3.06	5.1%	0.0%	2.3%
84X704	KIPP Academy Charter School	2.94	3.22	12.0%	0.0%	4.6%
26Q495	Bayside High School	2.94	3.20	9.1%	2.9%	2.2%
24Q610	Aviation Career & Technical Education High School	2.95	3.09	4.9%	1.9%	0.8%
84M350	Democracy Preparatory Charter School	2.96	3.15	6.5%	0.0%	5.2%
02M414	N.Y.C. Museum School	2.97	3.20	10.9%	0.0%	0.9%
30Q575	Academy of American Studies	2.99	3.17	8.6%	0.0%	1.5%
13K595	Bedford Academy High School	3.00	3.09	3.9%	0.0%	1.1%
30Q286	Young Women's Leadership School, Astoria	3.02	3.19	7.5%	0.0%	2.3%
17K543	Science, Technology and Research Early College High School at Er	3.04	3.09	2.0%	0.0%	1.3%
84M709	Harlem Village Academy Charter School	3.05	3.30	8.1%	0.0%	
	PEER GROUP AVERAGES	2.82	3.05	9.3%	0.9%	2.2%