Department of Education
Dennis M. Walcott, Chancellor

Progress Report 2010-11

SCIENCE AND TECHNOLOGY ACADEMY: A MOTT HALL SCHOOL

PRINCIPAL:	Dr. Patrick Awosogba
DBN:	09X454
ENROLLMENT:	248
SCHOOL TYPE:	Middle
PEER INDEX:	2.22

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

OVERALL GRADE **A**

OVERALL SCORE **71.7** out of 100

PERCENTILE RANK **93**

This school's overall score is greater than or equal to that of 93 percent of Middle schools.

Overall Grades - Middle

GRADE	SCORE RANGE	% of Schools
A	58.2 or higher	25% of schools
B	41.5 - 58.1	35% of schools
C	23.8 - 41.4	30% of schools
D	14.0 - 23.7	7% of schools
F	13.9 or lower	3% of schools

For elementary, middle, and K-8 schools, the percent of schools receiving top grades was set in advance. Schools with average English and Math performance in the top third citywide cannot receive a grade lower than a C. Schools in their first year, in phase out, or with fewer than 25 students with progress results 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	**44.9** out of 60	A	Student Progress measures how much individual students improved on state tests in English and Math between 2010 and 2011, compared to other students who started at the same level.
Student Performance	**9.5** out of 25	C	Student Performance measures student results on the 2011 state tests in English and Math.
School Environment	**9.8** out of 15	A	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	**7.5** (15 max)		Schools receive additional credit for exceptional gains by students with disabilities, English Language Learners, and students starting with the lowest proficiency citywide.
Overall Score	**71.7** 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. In 2009-10, New York State raised the cutoff for proficiency on English and Math tests, and the Progress Report introduced growth percentiles. 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:

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 44.9

(out of 60)

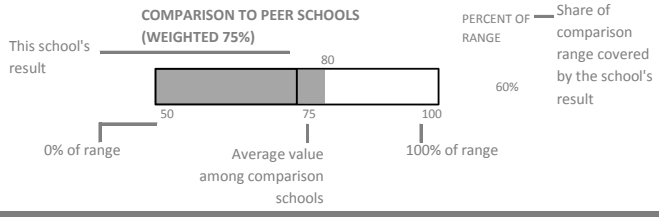
GRADE	SCORE RANGE
A	34.9 or higher
B	24.9 - 34.8
C	14.2 - 24.8
D	8.4 - 14.1
F	8.3 or lower

Student Progress represents 60% of the total score. The grade is based on growth percentiles, a measure of how much individual students improved on state tests in English and Math between 2010 and 2011, compared to other students who started at the same level. The section evaluates growth percentiles for all students, and students in the school's lowest third. An explanation of growth percentiles is at the end of this report.

	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
English							
Median Adjusted Growth Percentile (n=205)	71.0	52.8 – 67.5 – 82.2 (71.0)	61.9%	54.5 – 68.8 – 83.1 (71.0)	57.7%	15	9.13
Median Adjusted Growth Percentile for School's Lowest Third (n=78)	83.0	64.4 – 78.5 – 92.6 (83.0)	66.0%	64.2 – 77.5 – 90.8 (83.0)	70.7%	15	10.08
Mathematics							
Median Adjusted Growth Percentile (n=210)	74.5	36.3 – 59.8 – 83.3 (74.5)	81.3%	39.9 – 63.6 – 87.3 (74.5)	73.0%	15	11.88
Median Adjusted Growth Percentile for School's Lowest Third (n=76)	86.0	44.6 – 67.3 – 90.0 (86.0)	91.2%	48.4 – 68.5 – 88.6 (86.0)	93.5%	15	13.77
TOTAL POINTS						60	44.86

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 schools serving the same grade levels citywide. The comparison to peer schools is worth 75% of the points for each metric and the comparison to all schools citywide is worth 25% of the points. The bars represent the range of results for the peer and city comparison schools for 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	15	=	9.75

GRADE **C**

SCORE 9.5

(out of 25)

GRADE	SCORE RANGE
A	14.5 or higher
B	10.3 - 14.4
C	6.5 - 10.2
D	3.4 - 6.4
F	3.3 or lower

Student Performance represents 25% of the total score. The Student Performance grade is based on results on the 2011 state tests in English and Math. The section evaluates the percent of students who reach or exceed proficiency (Level 3 and 4), and the average proficiency rating of students.

	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
English							
Percentage of students at level 3 or 4 (n=233)	22.7%	22.7% (0.3% – 38.1% – 75.9%)	29.6%	22.7% (0.0% – 48.7% – 97.8%)	23.2%	6.25	1.75
Average Student Proficiency (n=233)	2.55	2.55 (2.24 – 2.76 – 3.28)	29.8%	2.55 (2.22 – 2.89 – 3.56)	24.6%	6.25	1.78
Mathematics							
Percentage of students at level 3 or 4 (n=239)	46.4%	46.4% (8.3% – 48.3% – 88.3%)	47.6%	46.4% (11.9% – 60.3% – 100.0%)	39.2%	6.25	2.84
Average Student Proficiency (n=239)	2.96	2.96 (2.38 – 2.92 – 3.46)	53.7%	2.96 (2.34 – 3.15 – 3.96)	38.3%	6.25	3.12

TOTAL POINTS	25	9.49

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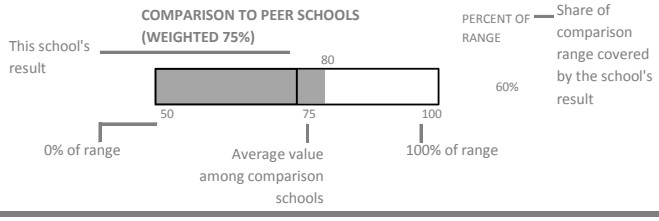

Score Calculation Example

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 **A**

SCORE 9.8

(out of 15)

GRADE	SCORE RANGE
A	8.7 or higher
B	6.2 - 8.6
C	3.5 - 6.1
D	2.1 - 3.4
F	2.0 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 and teachers 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	8.5	8.5 (6.3 – 7.5 – 8.7)	91.7%	8.5 (6.6 – 7.7 – 8.8)	86.4%	2.5	2.26
Communication	7.5	7.5 (5.3 – 6.7 – 8.1)	78.6%	7.5 (5.5 – 6.8 – 8.1)	76.9%	2.5	1.95
Engagement	7.8	7.8 (5.6 – 6.9 – 8.2)	84.6%	7.8 (5.8 – 7.1 – 8.4)	76.9%	2.5	2.07
Safety and Respect	7.7	7.7 (5.9 – 7.2 – 8.5)	69.2%	7.7 (5.9 – 7.3 – 8.7)	64.3%	2.5	1.70
Attendance Rate	90.6%	90.6% (87.7% – 91.6% – 95.5%)	37.2%	90.6% (87.1% – 92.6% – 98.1%)	31.8%	5	1.79

TOTAL POINTS	15	9.77

How To Interpret These Charts

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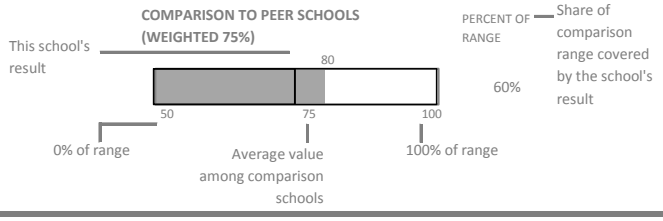


Score Calculation Example

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 starting with the lowest 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. Elementary, middle, and K-8 schools are eligible for points on 15 additional credit metrics, each of which is worth up to 1 point. (In the table below, "." indicates that a school has fewer than 15 eligible students in a category.)

CATEGORY	THIS SCHOOL'S RESULTS	TOP 20% CUTOFF	TOP 40% CUTOFF	POINTS EARNED
Percent at level 3 or 4				
English				
Self-Contained (n=39)	0.0%	5.0%	2.7%	.
CTT (n=7)	.	15.1%	9.3%	.
SETSS (n=16)	6.3%	20.0%	12.5%	.
Mathematics				
Self-Contained (n=39)	5.1%	15.8%	8.8%	.
CTT (n=7)	.	38.9%	26.3%	.
SETSS (n=16)	37.5%	45.7%	32.2%	0.5
Percent at 75th Growth Percentile or Higher				
English				
English Language Learners (n=59)	45.8%	48.8%	42.9%	0.5
Lowest Third Citywide (n=106)	57.5%	55.1%	50.2%	1.0
Self-Contained/CTT/SETSS (n=59)	66.1%	61.6%	56.5%	1.0
Black and Hispanic Males in Lowest Third Citywide (n=66)	57.6%	55.0%	50.0%	1.0
Mathematics				
English Language Learners (n=64)	54.7%	51.9%	42.9%	1.0
Lowest Third Citywide (n=114)	59.6%	52.0%	42.6%	1.0
Self-Contained/CTT/SETSS (n=60)	63.3%	50.4%	42.9%	1.0
Black and Hispanic Males in Lowest Third Citywide (n=61)	49.2%	50.3%	41.9%	0.5
Movement of students with disabilities to less restrictive environments (n=55)	0.18	0.50	0.34	.
			TOTAL POINTS	7.5

The most powerful accountability lies in the tasks students do. In many New York City middle school classrooms, teachers are asking students to defend arguments, solve complex problems, and perform real experiments—tasks that measure the kind of critical thinking skills defined by the Common Core Learning Standards, which students require for high school and postsecondary success.

Students' performance on these classroom projects and assessments are captured in the course grades teachers give at the end of each semester. Students who pass more rigorous courses by eighth grade are more likely to graduate from high school ready for college and career.

As New York City schools begin to integrate the Common Core Learning Standards, the Progress Report is evolving to measure and reward the more rigorous classroom work.

Students' middle school course outcomes are reported below as unscored metrics, and will be integrated into schools' Progress Report scores and grades beginning with the 2011-12 Progress Report.

CORE COURSE METRICS

This section measures the percentage of students in 6th through 8th grade who received a passing grade in a full year course in the relevant core subject area.

Percent of Students Who Passed a Core Course	THIS SCHOOL'S RESULTS	PEER AVERAGE	CITY AVERAGE
English (n=230)	92.6%	81.9%	85.6%
Math (n=230)	81.7%	77.9%	83.8%
Science (n=230)	70.0%	78.9%	84.8%
Social Studies (n=230)	77.8%	79.9%	84.3%

8th GRADERS WHO EARNED HIGH SCHOOL CREDIT

This section measures the percentage of students in 8th grade who, during their 8th grade year, passed a course and related Regents exam that entitles them to high school credit. Students who pass more than one accelerated course count the same as those who pass one.

	THIS SCHOOL'S RESULTS	PEER AVERAGE	CITY AVERAGE
PERCENT OF 8th GRADERS WHO EARNED HIGH SCHOOL CREDIT (n=0)	.	13.3%	22.6%

PEER INDEX CALCULATION

The Peer Index sorts schools according to incoming proficiency and demographics. A lower Peer Index indicates a higher need population. The Peer Index operates on a 1.0 to 4.5 scale and is calculated using the following formula:

FORMULA	(	Average 4th grade English and Math proficiency	)	-	(	2	x	% students with disabilities	)	=	PEER INDEX
FOR THIS SCHOOL	(	2.73	)	-	(	2	x	25.4%	)	=	2.22

PEER GROUP FOR: SCIENCE AND TECHNOLOGY ACADEMY: A MOTT HALL SCHOOL

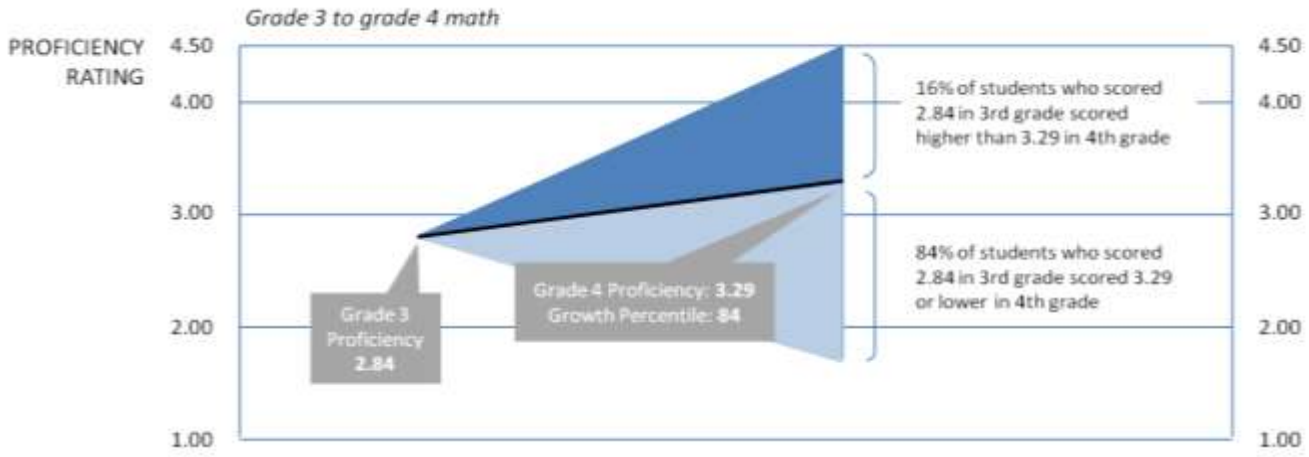
Each school's performance is compared to the performance of schools in its peer group. Peer schools are those New York City public schools with a student population most like this school's population, according to the peer index. Each elementary and middle school has up to 40 peer schools and each K-8 school has up to 30 peer schools.

DBN	SCHOOL	PEER INDEX	AVERAGE ENGLISH AND MATH PROFICIENCY	% STUDENTS WITH DISABILITIES
10X331	The Bronx School of Science Inquiry and Investigation	2.16	2.66	24.7%
84M388	St. HOPE Leadership Academy Charter School	2.17	2.62	22.5%
12X286	Fannie Lou Hamer Middle School	2.17	2.65	23.7%
12X384	Entrada Academy	2.17	2.62	22.4%
13K336	Academy of Business and Community Development	2.17	2.73	27.5%
07X221	South Bronx Preparatory: A College Board School	2.18	2.63	22.4%
17K352	Ebbets Field Middle School	2.19	2.51	16.5%
02M655	Life Sciences Secondary School	2.19	2.76	28.6%
15K497	School for International Studies	2.19	2.64	22.1%
03M247	M.S. M247 Dual Language Middle School	2.19	2.68	24.1%
09X325	Urban Science Academy	2.20	2.50	15.1%
12X129	P.S. 129 Twin Parks Upper	2.20	2.59	19.3%
16K035	M.S. 035 Stephen Decatur	2.20	2.68	24.0%
15K448	Brooklyn Secondary School for Collaborative Studies	2.21	2.94	36.5%
30Q126	Albert Shanker School for Visual and Performing Arts	2.21	2.67	22.9%
08X337	The School for Inquiry and Social Justice	2.21	2.76	27.7%
16K057	J.H.S. 057 Whitelaw Reid	2.21	2.61	20.0%
08X123	J.H.S. 123 James M. Kieran	2.21	2.63	20.8%
10X308	Bronx Dance Academy School	2.22	2.67	22.4%
29Q192	I.S. 192 The Linden	2.22	2.67	22.6%
09X454	**SCIENCE AND TECHNOLOGY ACADEMY: A MOTT HALL SCHOOL**	**2.22**	**2.73**	**25.4%**
05M469	Choir Academy of Harlem	2.22	2.57	17.4%
06M322	Middle School 322	2.22	2.53	15.4%
01M378	School for Global Leaders	2.23	2.76	26.3%
12X271	East Bronx Academy for the Future	2.23	2.66	21.3%
84K730	Summit Academy Charter School	2.23	2.72	24.6%
11X272	Globe School for Environmental Research	2.25	2.64	19.3%
11X142	MS 142 John Philip Sousa	2.25	2.67	21.2%
06M319	M.S. 319 - Maria Teresa	2.25	2.58	16.3%
18K068	I.S. 068 Isaac Bildersee	2.25	2.63	19.1%
15K088	J.H.S. 088 Peter Rouget	2.26	2.83	28.7%
08X375	The Bronx Mathematics Preparatory School	2.26	2.73	23.8%
84R073	New World Preparatory Charter School	2.26	2.82	28.3%
11X370	School of Diplomacy	2.26	2.63	18.5%
05M286	I.S. M286 Renaissance Military Leadership Academy	2.26	2.68	20.6%
08X269	Bronx Studio School for Writers and Artists	2.27	2.70	21.7%
13K596	Knowledge and Power Preparatory Academy VII Middle School	2.27	2.58	15.2%
23K518	Kappa V	2.28	2.73	22.7%
06M052	J.H.S. 052 Inwood	2.28	2.64	18.3%
18K588	Middle School for Art and Philosophy	2.28	2.65	18.3%
10X390	M.S. 390	2.29	2.70	20.6%
	PEER GROUP AVERAGES	2.22	2.67	22.2%

The Progress Report for elementary and middle schools focuses on students' growth to proficiency and beyond, regardless of their starting point. The Progress Report measures individual students' growth on state English and Math tests using growth percentiles.

1 GROWTH PERCENTILES

A student's growth percentile compares his or her growth to the growth of all students in the City who started at the same level of proficiency the year before. A student's growth percentile is a number between 0 and 100, which represents the percentage of students with the same score on last year's test who scored the same or lower than the student on this year's test. For example, a student with a growth percentile of 84 earned a score on this year's test that was the same or higher than 84 percent of the students in the City who had the same score as he did last year.



2 ADJUSTED GROWTH PERCENTILES

To evaluate a school on its students' growth percentiles, the Progress Report uses an adjusted growth percentile. Growth percentile adjustments are based on students' demographic characteristics, and reflect average differences in growth compared to students with the same starting proficiency level. The adjustments are made to students' ending proficiency rating as follows:

CATEGORY		ADJUSTMENT	
Special Education	Self-contained	+0.25	
Special Education	CTT	+0.15	
Special Education	SETSS	+0.10	
Title I Free Lunch		+0.01	per 10% of students eligible

Note: special education program for purposes of adjustments is based on the most restrictive setting of students over the last four school years.

3 MEDIAN ADJUSTED GROWTH PERCENTILES

The Progress Report evaluates a school based on its median adjusted growth percentile, the adjusted growth percentile of the middle student when all the students' adjusted growth percentiles are listed from lowest to highest.