Department of Education
Dennis M. Walcott, Chancellor

Progress Report 2012-13*

Archimedes Academy for Math, Science and Technology Applications

PRINCIPAL: Miriam Lazar

DBN: 08X367

ENROLLMENT: 289

SCHOOL TYPE: Middle

PERCENTILES AND GRADES FOR PREVIOUS YEARS

	2010	2011	2012
PERCENTILE:	20	54	61
GRADE:	C	B	B

KEY DEMOGRAPHIC INDICATORS

%BLACK OR HISPANIC	%ELL	%IEP	ECONOMIC NEED INDEX
95.5%	1.0%	23.9%	0.70

PROGRESS REPORT

F

OVERALL SCORE **28.7** out of 100

OVERALL PERCENTILE RANK **3**

This school's overall score is greater than or equal to that of 2.5 percent of Middle 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.

Progress Report Grades - Middle

GRADE	SCORE RANGE	% OF SCHOOLS
A	67.7 or higher	26% of schools
B	53.0 - 67.6	36% of schools
C	37.3 - 52.9	31% of schools
D	29.1 - 37.2	5% of schools
F	29.0 or lower	2% of schools

QUALITY REVIEW

Dev

Developing (2011-12)

The rating is based on three major categories of school performance: instruction that prepares students for college and careers, school organization and management, and quality of the learning environment.

A school that receives a Developing rating typically demonstrates inconsistent teaching and learning practices and is working towards effective school management and a more positive learning environment. For more information see:

http://schools.nyc.gov/Accountability/tools/review

Overview

Each school's Progress Report (1) measures the 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.

CATEGORY	SCORE	GRADE	DESCRIPTION
Student Progress	**11.1** out of 60	**D**	Student Progress measures how much individual students improved on state tests in English and Math between 2012 and 2013, compared to other students who started at the same level.
Student Performance	**10.5** out of 25	**C**	Student Performance measures student results on the 2013 state tests in English and Math.
School Environment	**3.8** out of 15	**F**	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	**3.3** out of 17		Schools receive additional credit for exceptional gains by students with disabilities, English Language Learners, and students starting with the lowest proficiency citywide.
Overall Score	**28.7** out of 100	**F**	The overall grade is based on the total of all scores above. Category scores may not add up to total score because of rounding.

*During the 2012-13 school year, New York City public schools were affected by Hurricane Sandy. Adjustments have been made to attendance rates for all schools.

Progress Report Implications

Strong Progress Report results are the basis for recognition and potential rewards for school leaders, and poor results are an important factor in determining whether schools require intensive support or intervention. For more information, see:

http://schools.nyc.gov/community/planning/Support+and+Intervention.htm

http://schools.nyc.gov/ProgressReport

State Accountability

The school's current status: **Focus**

This designation is determined by the New York State Department of Education under the Elementary and Secondary Education Act (ESEA) Flexibility Waiver. More information on New York State accountability can be found here:

http://schools.nyc.gov/Accountability/tools/accountability/default.htm

Archimedes Academy for Math, Science and Technology Applications

GRADE **D**

SCORE 11.1 (out of 60)

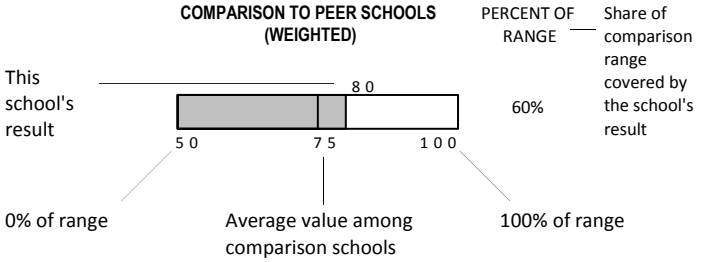
GRADE	SCORE RANGE
A	38.8 or higher
B	28.4 - 38.7
C	16.5 - 28.3
D	9.8 - 16.4
F	9.7 or lower

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 2012 and 2013.

	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=276)	58.0	58.0 (46.6 – 64.4 – 82.2)	32.0%	58.0 (49.8 – 64.6 – 79.4)	27.7%	15.00	4.64
Median Adjusted Growth Percentile for School's Lowest Third (n=94)	75.0	75.0 (67.7 – 80.7 – 93.7)	28.1%	75.0 (66.3 – 79.6 – 92.9)	32.7%	15.00	4.39
Mathematics							
Median Adjusted Growth Percentile (n=273)	47.0	47.0 (42.2 – 62.6 – 83.0)	11.8%	47.0 (42.4 – 61.9 – 81.4)	11.8%	15.00	1.77
Median Adjusted Growth Percentile for School's Lowest Third (n=96)	61.0	61.0 (62.1 – 76.3 – 90.5)	0.0%	61.0 (58.5 – 74.6 – 90.7)	7.8%	15.00	0.29
					TOTAL POINTS	60.00	11.09

How To Interpret These Charts

To determine the number of points earned, this school's 2012-13 results on each metric are compared to the 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 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 3.75 = 2.44

Archimedes Academy for Math, Science and Technology Applications

GRADE **C**

SCORE 10.5 (out of 25)

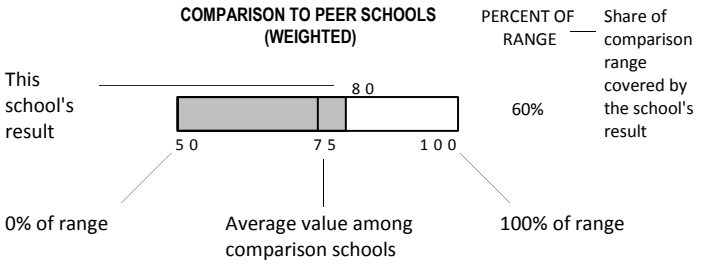
GRADE	SCORE RANGE
A	16.4 or higher
B	11.5 - 16.3
C	7.6 - 11.4
D	6.1 - 7.5
F	6.0 or lower

Student Performance represents 25% of the total score. The Student Performance grade is based on results on the 2013 state tests in English and Math and core course pass rates. State test metrics evaluate the percent of students who reach or exceed proficiency (Level 3 and 4) and students' average proficiency rating. Core course pass rates look at the percent of students in 6th through 8th grade who passed a course in a core subject area.

	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=283)	17.0%	17.0% (3.8% – 16.4% – 29.0%)	52.4%	17.0% (0.0% – 20.3% – 40.6%)	41.9%	5.00	2.49
Average Student Proficiency (n=283)	2.34	2.34 (2.11 – 2.37 – 2.63)	44.2%	2.34 (1.69 – 2.43 – 3.17)	43.9%	5.00	2.21
Mathematics							
Percentage of Students at Level 3 or 4 (n=283)	12.0%	12.0% (0.0% – 17.1% – 34.2%)	35.1%	12.0% (0.0% – 21.6% – 43.2%)	27.8%	5.00	1.66
Average Student Proficiency (n=283)	2.26	2.26 (1.95 – 2.37 – 2.79)	36.9%	2.26 (1.61 – 2.44 – 3.27)	39.2%	5.00	1.87
Percent of Students Passing a Core Course							
English (n=272)	89.0%	89.0% (76.0% – 91.1% – 100.0%)	54.2%	89.0% (69.5% – 89.4% – 100.0%)	63.9%	1.25	0.71
Math (n=272)	87.1%	87.1% (74.8% – 89.2% – 100.0%)	48.8%	87.1% (68.9% – 88.5% – 100.0%)	58.5%	1.25	0.64
Science (n=272)	90.1%	90.1% (79.4% – 91.3% – 100.0%)	51.9%	90.1% (70.0% – 89.7% – 100.0%)	67.0%	1.25	0.70
Social Studies (n=272)	77.2%	77.2% (74.7% – 90.1% – 100.0%)	9.9%	77.2% (67.7% – 89.0% – 100.0%)	29.4%	1.25	0.18
					TOTAL POINTS	25.00	10.46

How To Interpret These Charts

To determine the number of points earned, this school's 2012-13 results on each metric are compared to the 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 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 3.75 = 2.44

GRADE **F**

SCORE 3.8 (out of 15)

GRADE	SCORE RANGE
A	11.4 or higher
B	8.7 - 11.3
C	6.0 - 8.6
D	4.4 - 5.9
F	4.3 or lower

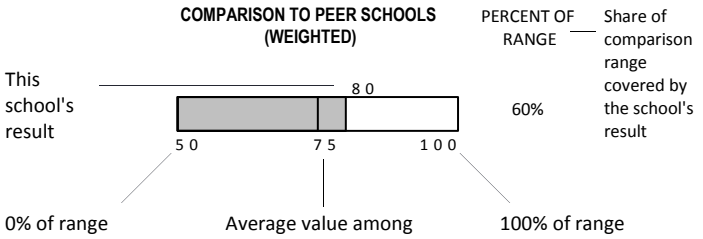
School Environment represents 15% of the total score. The School Environment grade is based on student attendance and your school's NYC School Survey, where parents, teachers, and students in grade 6 and above rate academic expectations, safety and respect, communication, and engagement.

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	7.0	7.0 (7.0 – 8.0 – 9.0)	0.0%	7.0 (7.1 – 8.0 – 8.9)	0.0%	2.50	0.00
Communication	6.7	6.7 (5.9 – 7.1 – 8.3)	33.3%	6.7 (5.9 – 7.2 – 8.5)	30.8%	2.50	0.82
Engagement	6.3	6.3 (6.1 – 7.3 – 8.5)	8.3%	6.3 (6.2 – 7.4 – 8.6)	4.2%	2.50	0.18
Safety and Respect	6.8	6.8 (5.6 – 7.1 – 8.6)	40.0%	6.8 (5.6 – 7.2 – 8.8)	37.5%	2.50	0.98
Attendance Rate	91.5%	91.5% (88.9% – 92.7% – 96.5%)	34.2%	91.5% (86.8% – 92.6% – 98.4%)	40.5%	5.00	1.79
TOTAL POINTS						15.00	3.77

How To Interpret These Charts

To determine the number of points earned, this school's 2012-13 results on each metric are compared to the 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 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 3.75 = 2.44

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 additional credit when each high-need student meets the success criteria for an eligible metric. The number of points will depend on the percentage of the school's population that is in the high-need group, the percentage of that group that is successful, and a "fixed point value" based on how difficult it is to achieve the success criteria. Additional Credit can only improve a school's Progress Report score. It cannot lower a school's score. Elementary schools are eligible for points on 16 additional credit metrics while middle and K-8 schools are eligible for points on up to 17 metrics, each of which is worth up to one point. (In the table below, "." in "This School's Results" indicates that a school has fewer than 5 eligible students in one of the categories.)

CATEGORY	THIS SCHOOL'S RESULTS	POPULATION PERCENTAGE	FIXED POINT VALUE	POINTS POSSIBLE	POINTS EARNED
Percent at Level 3 or 4					
English					
Self-Contained (n=35)	0.0%	12.4%	3.036	1.00	0.00
Integrated Co-Teaching (ICT) (n=28)	3.6%	9.9%	0.609	1.00	0.22
Special Education Teacher Support Services (SETSS) (n=10)	0.0%	3.5%	0.619	1.00	0.00
Mathematics					
Self-Contained (n=35)	0.0%	12.4%	1.946	1.00	0.00
Integrated Co-Teaching (ICT) (n=28)	7.1%	9.9%	0.494	1.00	0.35
Special Education Teacher Support Services (SETSS) (n=10)	10.0%	3.5%	0.536	1.00	0.19
Percent at 75th Growth Percentile or Higher					
English					
English Language Learners (n=21)	19.0%	7.6%	0.022	1.00	0.03
Lowest Third Citywide (n=93)	51.6%	33.7%	0.011	1.00	0.19
Self-Contained/ICT/SETSS (n=70)	55.7%	25.4%	0.017	1.00	0.24
Black and Hispanic Males in Lowest Third Citywide (n=59)	57.6%	21.4%	0.022	1.00	0.27
Mathematics					
English Language Learners (n=20)	15.0%	7.3%	0.023	1.00	0.03
Lowest Third Citywide (n=81)	40.7%	29.7%	0.012	1.00	0.14
Self-Contained/ICT/SETSS (n=67)	38.8%	24.5%	0.020	1.00	0.19
Black and Hispanic Males in Lowest Third Citywide (n=49)	49.0%	17.9%	0.025	1.00	0.22
Movement from SC/ICT/SETSS to Less Restrictive Environments (n=63)	0.27	21.8%	0.029	1.00	0.17
English Language Learner Progress (n=13)	30.8%	4.5%	0.037	1.00	0.05

	THIS SCHOOL'S RESULTS	COMPARISON TO PEER SCHOOLS (WEIGHTED 75%)	PERCENT OF PEER RANGE	COMPARISON TO CITY SCHOOLS (WEIGHTED 25%)	PERCENT OF CITY RANGE		
Percent of 8th Graders Earning High School Credit (n=92)	22.8%	22.8% (0.0% – 25.5% – 51.0%)	44.7%	22.8% (0.0% – 26.0% – 52.0%)	43.8%	1.00	0.44
9th Grade Adjusted Credit Accumulation of Former 8th Graders (n=70)	86.0%	86.0% (76.0% – 86.0% – 96.0%)	50.0%	86.0% (65.0% – 85.0% – 100.0%)	60.0%	1.00	0.53
					TOTAL POINTS		3.26

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. Each elementary and middle school has up to 40 peer schools and each K-8 school has up to 30 peer schools.

PEER GROUP CALCULATION

Peer groupings are created using a "nearest neighbor" matching methodology. This methodology examines the mathematical difference between a school and all potential peers on a given set of characteristics. Schools with the smallest difference across all the characteristics are peered together.

PEER GROUP FOR: **Archimedes Academy for Math, Science and Technology Applications**

DBN	SCHOOL	AVERAGE ENGLISH PROFICIENCY	AVERAGE MATH PROFICIENCY	%STUDENTS WITH DISABILITIES	%OVERAGE
08X367	**Archimedes Academy for Math, Science and Technology Applications**	**2.82**	**3.32**	**23.9%**	**3.1%**
01M839	Tompkins Square Middle School	2.97	3.40	24.3%	3.1%
02M131	M.S. 131	2.73	3.43	23.9%	3.0%
02M896	Lower Manhattan Community Middle School	2.91	3.48	26.0%	1.8%
03M250	M.S. 250 West Side Collaborative Middle School	2.74	3.08	25.3%	2.2%
04M825	Isaac Newton Middle School for Math & Science	2.79	3.22	22.0%	3.2%
07X223	M.S. 223 The Laboratory School of Finance and Technology	2.87	3.30	17.9%	2.4%
08X125	J.H.S. 125 Henry Hudson	2.76	3.19	21.6%	3.3%
08X337	The School for Inquiry and Social Justice	2.77	3.13	25.4%	1.8%
08X371	Urban Institute of Mathematics	2.88	3.40	19.4%	1.4%
08X376	Antonia Pantoja Preparatory Academy: A College Board School	2.82	3.21	25.5%	5.3%
08X467	Mott Hall Community School	2.72	3.11	25.8%	4.0%
09X327	Comprehensive Model School Project M.S. 327	2.72	3.13	19.0%	3.7%
09X454	Science and Technology Academy: A Mott Hall School	2.78	3.09	19.9%	3.9%
10X225	Theatre Arts Production Company School	2.79	3.17	28.6%	3.7%
10X228	Jonas Bronck Academy	2.92	3.38	21.4%	1.2%
10X243	West Bronx Academy for The Future	2.70	3.12	24.0%	3.5%
11X322	Aspire Preparatory Middle School	2.76	3.18	27.5%	4.4%
11X326	Bronx Green Middle School	2.72	3.13	24.0%	2.4%
11X468	Pelham Academy of Academics and Community Engagement	2.80	3.23	20.5%	2.8%
12X242	Mott Hall V	2.70	3.18	22.7%	3.3%
12X316	Kappa III	2.77	3.08	20.9%	3.1%
13K113	M.S. 113 Ronald Edmonds Learning Center	2.87	3.21	18.3%	2.8%
13K266	M.S. K266 - Park Place Community Middle School	2.78	3.08	24.4%	3.2%
16K393	Frederick Douglass Academy IV Secondary School	2.75	3.17	20.2%	4.5%
18K366	The Science and Medicine Middle School	2.76	3.07	22.9%	2.7%
20K609	Urban Assembly School for Criminal Justice	2.73	3.15	21.6%	2.0%
21K096	I.S. 096 Seth Low	2.76	3.25	19.0%	3.4%
22K078	J.H.S. 078 Roy H. Mann	2.80	3.14	19.2%	2.0%
25Q250	I.S. 250 The Robert F. Kennedy Community Middle School	2.76	3.19	24.1%	3.8%
27Q309	Academy of Medical Technology: a College Board School	2.73	3.11	21.7%	4.5%
29Q327	Eagle Academy for Young Men III	2.84	3.11	21.8%	1.6%
31R002	I.S. R002 George L. Egbert	2.94	3.43	21.9%	1.6%
31R027	I.S. 027 Anning S. Prall	2.86	3.33	25.0%	2.3%
31R051	I.S. 051 Edwin Markham	2.80	3.19	26.5%	4.3%
31R061	I.S. 061 William a Morris	2.73	3.06	23.0%	2.3%
84K360	Launch Expeditionary Learning Charter School	2.77	3.08	24.3%	2.7%
84K744	Coney Island Preparatory Public Charter School	2.83	3.22	25.1%	2.0%
84M065	Democracy Prep Endurance Charter School	2.68	3.06	23.4%	2.7%
84M524	Innovate Manhattan Charter School	2.81	3.14	20.4%	2.7%
84X258	Tech International Charter School	2.84	3.11	24.1%	2.9%
	PEER GROUP AVERAGES	2.79	3.20	22.8%	2.9%

This page provides more granular data on students' state exam scores. It disaggregates these scores by grade and subject for 2012-13. While the numbers here do not individually count for points, the detailed deconstruction should provide deeper insight into 2012-13 student performance.

State Exam Scores by Grade

	AVERAGE STUDENT PROFICIENCY	PERCENTAGE OF STUDENTS AT LEVEL 3 OR LEVEL 4	MEDIAN ADJUSTED GROWTH PERCENTILE
Mathematics			
6th Grade (n = 97)	2.48	17.5%	44.0
7th Grade (n = 91)	2.29	14.3%	65.0
8th Grade (n = 95)	2.02	4.2%	28.0
English			
6th Grade (n = 97)	2.33	10.3%	47.0
7th Grade (n = 90)	2.41	20.0%	66.5
8th Grade (n = 96)	2.30	20.8%	62.0
Science			
8th Grade (n = 92)	3.22	64.1%	.

Chronic Absenteeism

	PERCENTAGE OF STUDENTS SCHOOLWIDE	AVERAGE OF SCHOOLS CITYWIDE
Students With Less Than 90% Attendance (n = 292)	26.4%	21.9%

High School Readiness Indicators

% of 8th Graders Earning High School Credit

FORMULA:	(% taking accelerated courses) X (	% taking accelerated courses who passed) =	% EARNING HIGH SCHOOL CREDIT
ALL SUBJECTS:	(25.0%) X (	91.3%) =	22.8%
MATHEMATICS:	(25.0%) X (	47.8%) =	12.0%
SCIENCE:	(25.0%) X (	91.3%) =	22.8%
LANGUAGE OTHER THAN ENGLISH:	(0.0%) X (	.) =	0.0%

Long-Term Growth Percentile	THIS SCHOOL'S RESULTS	PEER AVERAGE	CITY AVERAGE
English (n = 93)	51.0	58.5	61.2
Mathematics (n = 92)	23.5	50.7	57.3