Department of Education
Dennis M. Walcott, Chancellor

Progress Report 2011-12

Academy of Environmental Science Secondary High School

PRINCIPAL: Irma Garceau

DBN: 04M635
ENROLLMENT: 192
SCHOOL TYPE: High School
PEER INDEX*: 1.56

*See p. 7 for more details on Peer Index.

PROGRESS REPORT

	OVERALL SCORE		OVERALL PERCENTILE	
NA	NA	out of 100	NA	This school's overall score is greater than or equal to that of NA High 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.

Progress Report Grades - High School

GRADE	SCORE RANGE	% OF SCHOOLS
A	or higher	35% of schools
B	-	37% of schools
C	-	20% of schools
D	-	5% of schools
F	or lower	3% of schools

QUALITY REVIEW

UPF

(2008-09)

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.

*UPF = Underdeveloped with Proficient Features. This designation is similar to Developing and is no longer in use.

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

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.

CATEGORY	SCORE	GRADE	DESCRIPTION
Student Progress	out of 55		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	out of 20		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	out of 15		School Environment measures student attendance and a survey of the school community rating academic expectations, safety and respect, communication, and engagement.
College and Career Readiness	out of 10		College and Career Readiness measures how well students are prepared for life after high school on the basis of passing advanced courses, meeting English and math standards, and enrolling in a post-secondary institution.
Closing the Achievement Gap	(16 max)		Schools receive additional credit for exceptional graduation and college/career readiness outcomes of students with disabilities, English Language Learners, and students who enter high school at a low performance level.
Overall Score	out of 100		The overall grade is based on the total of all scores above. Category scores may not add up to total score because of rounding.

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

State Accountability

The school's current status: **In Good Standing**

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

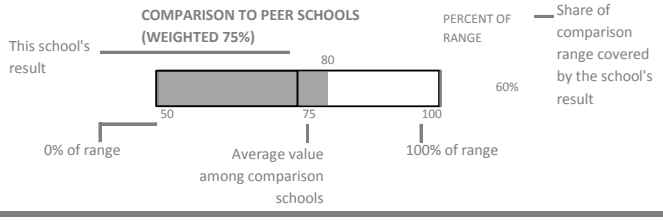
	GRADE	SCORE RANGE
GRADE	A	or higher
	B	-
	C	-
SCORE	D	-
(out of 55)	F	or lower

Student Progress represents 55% 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=0)	.			50.1% 77.5% 100.0%	.	.	.
Pct. of Students in School's Lowest Third Earning 10+ Credits in 1st Year (n=0)	.			23.0% 62.9% 100.0%	.	.	.
Pct. of Students Earning 10+ Credits in 2nd Year (n=28)	67.9%	67.9%		67.9% 45.7% 73.5% 100.0%	40.9%	.	.
Pct. of Students in School's Lowest Third Earning 10+ Credits in 2nd Year (n=15)	73.3%	73.3%		73.3% 19.3% 58.9% 98.5%	68.2%	.	.
Pct. of Students Earning 10+ Credits in 3rd Year (n=67)	61.2%	61.2%		61.2% 44.2% 71.8% 99.4%	30.8%	.	.
Pct. of Students in School's Lowest Third Earning 10+ Credits in 3rd Year (n=20)	50.0%	50.0%		50.0% 19.0% 57.8% 96.6%	39.9%	.	.
Average Completion Rate for Remaining Regents (n=165)	40.0%	40.0%		40.0% 10.5% 50.9% 91.3%	36.5%	.	.
Weighted Regents Pass Rate							
English (n=85)	1.18	1.18		1.18 0.66 1.24 1.80	44.6%	.	.
Mathematics (n=65)	2.47	2.47		2.47 0.40 1.28 2.16	100.0%	.	.
Science (n=76)	1.49	1.49		1.49 0.53 1.39 2.25	55.8%	.	.
Global History (n=76)	1.82	1.82		1.82 0.37 1.33 2.29	75.5%	.	.
United States History (n=120)	1.24	1.24		1.24 0.54 1.20 1.86	53.0%	.	.
					TOTAL POINTS		

How To Interpret These Charts

To determine the number of points earned, this school's 2011-12 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 the previous five school years 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	SCORE RANGE
GRADE	A	or higher
	B	-
	C	-
SCORE	D	-
(out of 20)	F	or lower

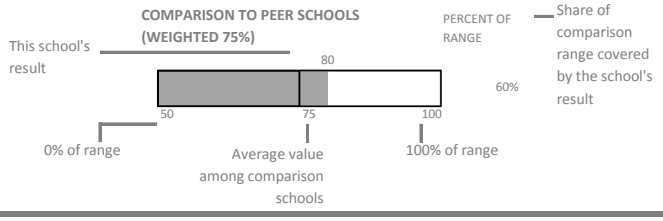
Student Performance represents 20% of the total score. The Student Performance grade is based on how many students graduated within 4 years and 6 years of starting high school, and the types of diplomas these students earned.

	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=100)	43.0%	43.0%		43.0% (41.2% – 71.9% – 100.0%)	3.1%	.	.
Six Year Graduation Rate (n=78)	50.0%	50.0%		50.0% (49.7% – 77.0% – 100.0%)	0.6%	.	.
Weighted Diploma Rate							
Four Year Weighted Diploma Rate (n=100)	108.5%	108.5%		108.5% (62.4% – 160.6% – 258.8%)	23.5%	.	.
Six Year Weighted Diploma Rate (n=78)	108.3%	108.3%		108.3% (63.3% – 157.0% – 250.7%)	24.0%	.	.

TOTAL POINTS

How To Interpret These Charts

To determine the number of points earned, this school's 2011-12 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 the previous five school years 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

SCORE

(out of 15)

GRADE	SCORE RANGE
A	or higher
B	-
C	-
D	-
F	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.

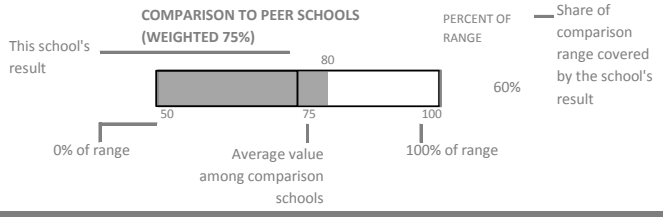
School Survey Results

	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	7.3	7.3		6.2 – 7.3 – 7.4 – 8.6	45.8%	.	.
Communication	6.8	6.8		5.2 – 6.8 – 6.5 – 7.8	61.5%	.	.
Engagement	7.1	7.1		5.3 – 7.1 – 6.7 – 8.1	64.3%	.	.
Safety and Respect	7.2	7.2		5.8 – 7.2 – 7.2 – 8.6	50.0%	.	.
Attendance Rate	79.3%	79.3%		76.0% – 79.3% – 86.7% – 97.4%	15.4%	.	.

TOTAL POINTS

How To Interpret These Charts

To determine the number of points earned, this school's 2011-12 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 the previous five school years 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

SCORE

(out of 10)

GRADE	SCORE RANGE
A	or higher
B	-
C	-
D	-
F	or lower

College and Career Readiness represents 10% of the total score. The College and Career Readiness section measures how well students are prepared for life after high school on the basis of passing advanced courses, meeting English and math standards, and enrolling in a post-secondary institution. Please see the Additional Information page for further details on these measures.

College Readiness Index

These metrics measure the percentage of students in the 2010 and 2012 cohorts (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 2012.

	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
College Readiness Index - 4 Yrs. (n=100)	6.0%	6.0%		6.0% (0.0% – 21.7% – 43.4%)	13.8%	.	.
College Readiness Index - 6 Yrs. (n=78)	3.8%	3.8%		3.8% (0.0% – 22.3% – 44.6%)	8.5%	.	.

Postsecondary Enrollment Rate

These metrics measure the percentage of students in the 2010 and 2011 cohorts (all students who entered high school four years earlier) who graduated and enrolled in public service, a vocational program, or a degree program at a two- or four-year college by December 31, 2011.

	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
Postsecondary Enrollment Rate - 6 Mth. (n=96)	22.9%	22.9%		22.9% (13.3% – 50.2% – 87.1%)	13.0%	.	.
Postsecondary Enrollment Rate - 18 Mth. (n=77)	39.0%	39.0%		39.0% (0.0% – 29.7% – 59.4%)	65.7%	.	.

College and Career Preparatory Course Index

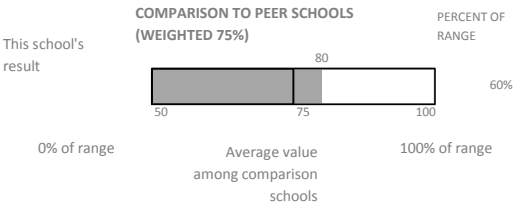
This metric measures the percentage of students in the 2012 cohort (all students who entered high school four years earlier) who have successfully completed approved rigorous courses and assessments (please see the Additional Information page for more information on this index).

	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
College and Career Preparatory Course Index (n=100)	6.0%	6.0%		6.0% (0.0% – 37.6% – 75.2%)	8.0%	.	.

TOTAL POINTS

How To Interpret These Charts

To determine the number of points earned, this school's 2011-12 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 the previous five school years 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

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. 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 five eligible students in one of the categories.)

CATEGORY	THIS SCHOOL'S RESULTS	POPULATION PERCENTAGE	FIXED POINT VALUE	POINTS POSSIBLE	POINTS EARNED
Four Year Weighted Diploma Rate					
English Language Learners (n=17)	117.6%	17.0%	0.018	.	.
Self-Contained/ICT/SETSS (n=21)	57.1%	21.0%	0.020	.	.
All Students in the Lowest Third Citywide (n=53)	49.1%	53.0%	0.013	.	.
Black/Hispanic Males in the Lowest Third Citywide (n=31)	32.3%	31.0%	0.028	.	.
College and Career Readiness					
Students in the Lowest Third Citywide, CCPCI* (n=53)	0.0%	53.0%	0.151	.	.
Students in the Lowest Third Citywide, Four-year CRI** (n=53)	1.9%	53.0%	0.501	.	.
Students in the Lowest Third Citywide, PER† by Six Months After High School (n=65)	15.4%	67.7%	0.049	.	.
Movement from SC/ICT/SETSS to Less Restrictive Environments (n=37)	0.97	19.3%	0.062	.	.

*CCPCI = College and Career Preparatory Course Index

**CRI = College Readiness Index

†PER = Postsecondary Enrollment Rate

TOTAL POINTS

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	) =	PEER INDEX
FOR THIS SCHOOL	(	2.37	) - (	2	x	22.4%	) - (	2	x	13.0%	) - (	10.9%	) =	1.56

PEER GROUP FOR: **Academy of Environmental Science Secondary High 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 high school has up to 40 peer schools.

DBN	SCHOOL	PEER INDEX	AVERAGE PROFICIENCY	% IEP	% SELF-CONTAINED	% OVERAGE
12X479	BRONX CAREER AND COLLEGE PREPARATORY HIGH SCHOOL	1.37	2.55	29.9%	19.3%	20.1%
09X412	Bronx High School of Business	1.37	2.43	26.4%	17.5%	17.7%
14K610	Automotive High School	1.38	2.49	32.7%	15.0%	16.3%
10X397	English Language Learners and International Support Preparatory	1.39	2.03	0.3%	0.3%	94.9%
32K552	Academy of Urban Planning	1.40	2.40	23.4%	16.6%	19.6%
02M047	47 The American Sign Language and English Secondary School	1.42	2.52	39.1%	9.8%	12.6%
14K632	Frances Perkins Academy	1.44	2.46	28.5%	15.1%	15.1%
16K455	Boys and Girls High School	1.44	2.40	24.2%	15.2%	17.0%
08X530	Banana Kelly High School	1.45	2.41	27.7%	12.2%	16.2%
05M685	Bread & Roses Integrated Arts High School	1.46	2.41	26.1%	14.3%	14.3%
12X251	Explorations Academy	1.47	2.42	25.1%	14.9%	14.6%
09X227	Bronx Collegiate Academy	1.49	2.39	22.8%	14.1%	16.6%
09X276	Leadership Institute	1.50	2.37	20.4%	14.8%	17.0%
07X520	Foreign Language Academy of Global Studies	1.50	2.52	25.7%	19.6%	11.6%
12X278	Peace and Diversity Academy	1.51	2.33	21.6%	9.5%	19.5%
07X600	Alfred E. Smith Career and Technical Education High School	1.51	2.42	26.2%	15.3%	7.6%
14K071	Juan Morel Campos Secondary School	1.51	2.50	26.9%	15.6%	14.0%
12X692	Monroe Academy for Visual Arts & Design	1.53	2.40	23.8%	12.2%	15.2%
07X547	New Explorers High School	1.54	2.48	26.9%	12.3%	16.2%
11X545	Bronx Aerospace High School	1.55	2.58	31.7%	14.9%	9.9%
12X682	Fannie Lou Hamer Freedom High School	1.55	2.48	28.1%	14.3%	8.8%
29Q496	Business, Computer Applications & Entrepreneurship High School	1.56	2.44	24.4%	11.3%	17.0%
04M409	Coalition School for Social Change	1.56	2.48	26.9%	12.6%	12.9%
07X522	Bronx Design and Construction Academy	1.56	2.59	29.7%	11.6%	19.6%
11X514	The Bronxwood Preparatory Academy	1.57	2.43	23.8%	14.2%	10.3%
09X297	Morris Academy for Collaborative Studies	1.58	2.44	24.9%	10.9%	14.2%
09X329	DreamYard Preparatory School	1.60	2.52	23.5%	13.5%	18.3%
08X452	Bronx Guild	1.60	2.48	26.9%	10.2%	14.1%
10X438	Fordham Leadership Academy for Business and Technology	1.60	2.48	22.4%	14.9%	13.5%
07X334	International Community High School	1.61	2.10	3.1%	0.5%	41.7%
19K639	Brooklyn Lab School	1.61	2.48	23.4%	11.6%	17.4%
21K620	William E. Grady Career and Technical Education High School	1.62	2.56	27.9%	14.1%	10.1%
12X248	Metropolitan High School, The	1.62	2.51	23.9%	13.9%	13.9%
16K688	The Brooklyn Academy of Global Finance	1.62	2.56	23.3%	15.7%	16.4%
32K403	Academy for Environmental Leadership	1.62	2.42	19.6%	12.2%	16.0%
19K504	High School for Civil Rights	1.63	2.42	19.2%	9.7%	21.4%
14K685	El Puente Academy for Peace and Justice	1.63	2.47	24.8%	12.4%	9.6%
01M509	Marta Valle High School	1.64	2.56	27.5%	13.1%	10.9%
10X433	High School for Teaching and the Professions	1.65	2.52	22.8%	13.7%	14.0%
10X439	Bronx High School for Law and Community Service	1.65	2.52	23.6%	13.2%	13.4%
08X332	Holcombe L. Rucker School of Community Research	1.66	2.46	21.3%	10.2%	17.7%
	PEER GROUP AVERAGES	1.53	2.45	24.4%	13.0%	17.5%

This Additional Information page provides context to view how a school's metrics were calculated on the previous pages of this report. Certain Progress Report metrics require that students reach one of many thresholds, or reach multiple thresholds in tandem to earn credit for their school. While all information on this page is not scored, the Additional Information page meaningfully illuminates or adds context to how a school received its metric values in the 2011-12 school year.

Regents Exams

Includes all students in the high school who took the respective exams in January, June or August 2012.

		Average Score	% passing	% at college-ready threshold for exam
Mathematics:	Integrated Algebra (n = 58)	63	59%	0%
	Geometry (n = 33)	52	24%	0%
	Algebra 2/Trigonometry (n = 4)	.	.	.
ELA:	Comprehensive English (n = 87)	65	62%	31%
Social Studies:	U.S. History (n = 120)	62	53%	
	Global History (n = 76)	59	43%	
Science:	Chemistry (n = 34)	62	41%	
	Physics (n = 0)	.	.	
	Earth Science (n = 35)	47	17%	
	Living Environment (n = 47)	58	43%	
Languages:	Languages Other Than English (n = 0)	.	.	

College Exams

Calculated as highest result for the 2012 four-year graduation cohort anytime during their high school career.

		Average Score	% of 4-year Cohort Taking
SAT:	Mathematics (n = 46)	375	46.0%
	Critical Reading (n = 46)	379	46.0%
	Writing (n = 46)	362	46.0%
ACT:	Mathematics (n = 0)	.	0.0%
	English (n = 0)	.	0.0%
	Reading (n = 0)	.	0.0%
	Science (n = 0)	.	0.0%
CUNY:	Math 1 (n = 13)	.	13.0%
	Math 2 (n = 13)	.	13.0%
	Reading (n = 4)	.	4.0%
	Writing (n = 3)	.	3.0%

College and Career Readiness Metrics Disaggregated

	6 Months After Graduating	18 Months After Graduating
Post-secondary Enrollment Rate	22.9%	39.0%
2-Year or 4-Year College	22.9%	39.0%
CUNY	13.5%	22.1%
NYS Public	6.3%	7.8%
NYS Private	1.0%	6.5%
Out-of-State	2.1%	2.6%
Public Service	0.0%	0.0%
Vocational Program	0.0%	0.0%
	% of 4-year Cohort	**% of 6-year Cohort**
College Readiness Index (counting positively requires ALL thresholds)	6.0%	3.8%
% attaining Regents Diploma	41.0%	25.6%
% attaining Math College Readiness Standard	6.0%	3.8%
% attaining English College Readiness Standard	34.0%	29.5%
	% of 4-year Cohort	
College and Career Preparatory Course Index	6.0%	
% scoring 65+ on the Algebra II, Math B, Chemistry or Physics Regents Exam	6.0%	
% scoring 3+ on any Advanced Placement (AP) Exam	1.0%	
% scoring 4+ on any International Baccalaureate (IB) Exam	0.0%	
% earning a diploma with a Career and Technical Education (CTE) Endorsement	0.0%	
% passing an industry-recognized technical assessment	0.0%	
% earning a diploma with an Arts endorsement	0.0%	
% earning a grade of "C" or higher in a course for college credit	0.0%	
% passing another course certified by the DOE as college- and career-ready	0.0%	