

**ACHIEVEMENT FIRST BUSHWICK  
CHARTER SCHOOL**

**2016-17 ACCOUNTABILITY PLAN  
PROGRESS REPORT**

Submitted to the SUNY Charter Schools Institute on:

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By Jonathan Pagan

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## INTRODUCTION

Jonathan Pagan, Data and Policy Analyst prepared this 2016-17 Accountability Progress Report on behalf of the school's board of trustees:

Trustee's Name	Board Position
Deborah Shanley	Chair
Jon Atkeson	Treasurer
Andy Hubbard	Secretary
Justin Cohen	Trustee
Romy Coquillette	Trustee
Lee Gause	Trustee
Lee Gelernt	Trustee
L. Priscilla Hall	Trustee
Andy Hubbard	Trustee
Judith Jenkins	Trustee
Adrienne Loiseau	Parent Representative
Daniel Russell	Trustee
Amy Arthur Samuels	Trustee
Angela Tucker	Parent Representative
Ambrose Wooden, Jr.	Trustee
Natasha Lewis	Parent Representative

**Courtney Saretzky has served as the elementary school principal since 2016.**

**Riley Bauling has served as the middle school principal since 2016.**

## INTRODUCTION

The mission of Achievement First Bushwick Charter School is to provide all of our students with the academic and character skills they need to excel in top colleges, succeed in a competitive world, and serve as the next generation of leaders in our communities. We accomplish this by ensuring that every student attending the school receives a college-preparatory education and is frequently assessed to ensure that she or he is making yearly progress towards academic goals.

Achievement First Bushwick Elementary School opened in 2006 and in 2016-17 served 471 students in grades K-4. Achievement First Bushwick Middle School opened in fall 2007 and in 2016-17 served 372 students in grades 5-8.

Core elements of the Achievement First model that support our ambitious goal of closing the achievement gap by preparing our students for success include:

- Unwavering focus on breakthrough student achievement
- Aggressive recruitment and retention of talent and diversity
- Consistent, proven, standards-based curriculum
- Disciplined, high-expectations achievement-oriented school culture
- Interim assessments and strategic use of data to drive instruction
- Principals with the power to lead and high-quality, focused training for leaders
- Parents as Partners

School Enrollment by Grade Level and School Year

School Year	K	1	2	3	4	5	6	7	8	9	10	11	12	Total
2012-13	85	83	82	83	76	87	91	88	76	40	30			821
2013-14	86	87	89	83	83	94	88	87	93	50	40	25		905
2014-15	95	95	88	93	85	94	88	89	86	62	49	37	25	986
2015-16	88	90	96	91	95	95	97	90	91	60	57	43	37	1030
2016-17	88	93	95	98	97	96	97	91	88	63	57	52	36	1051

## HIGH SCHOOL COHORTS

### ACCOUNTABILITY COHORT

The state's Accountability Cohort consists specifically of students who are in their fourth year of high school after the 9<sup>th</sup> grade. For example, the 2013 state Accountability Cohort consists of students who entered the 9<sup>th</sup> grade in the 2013-14 school year, were enrolled in the school on the state's annual enrollment-determination day (BEDS day) in the 2016-17 school year, and either remained in the school for the rest of the year or left for an acceptable reason. (See New York State Education Department's website for its accountability rules and cohort definitions: [www.p12.nysed.gov/accountability/](http://www.p12.nysed.gov/accountability/))

## HIGH SCHOOL COHORTS

The following table indicates the number of students in the Accountability Cohorts who are in their fourth year of high school and were enrolled on BEDS Day in October and on June 30<sup>th</sup>.

Fourth-Year High School Accountability Cohorts

Fourth Year Cohort	Year Entered 9 <sup>th</sup> Grade Anywhere	Cohort Designation	Number of Students Enrolled on BEDS Day in October of the Cohort's Fourth Year	Number Leaving During the School Year	Number in Accountability Cohort as of June 30 <sup>th</sup>
2014-15	2011-12	2011	26	0	26
2015-16	2012-13	2012	40	0	40
2016-17	2013-14	2013	60	8	52

## TOTAL COHORT FOR GRADUATION

Students are included in the Total Cohort for Graduation also based on the year they first enter the 9<sup>th</sup> grade. Students enrolled for at least one day in the school after entering the 9<sup>th</sup> grade are part of the school's Graduation Cohort. If the school has discharged students for one of the following acceptable reasons, it may remove them from the graduation cohort: if they transfer to another public or private diploma-granting program with documentation, transfer to home schooling by a parent or guardian, transfer to another district or school, transfer by court order, leave the U.S. or die.

Fourth Year Total Cohort for Graduation

Fourth Year Cohort	Year Entered 9 <sup>th</sup> Grade Anywhere	Cohort Designation	Number of Students Enrolled on June 30 <sup>th</sup> of the Cohort's Fourth Year (a)	Additional Students Still in Cohort <sup>1</sup> (b)	Graduation Cohort (a) + (b)
2014-15	2011-12	2011	26	0	26
2015-16	2012-13	2012	40	0	40
2016-17	2013-14	2013	52	0	52

Fifth Year Total Cohort for Graduation

Fifth Year Cohort	Year Entered 9 <sup>th</sup> Grade Anywhere	Cohort Designation	Number of Students Enrolled on June 30 <sup>th</sup> of the Cohort's Fifth Year (a)	Additional Students Still in Cohort <sup>2</sup> (b)	Graduation Cohort (a) + (b)
2014-15	2010-11	2010			
2015-16	2011-12	2011	1	0	1
2016-17	2012-13	2012	39	0	39

<sup>1</sup> Number of students who had been enrolled for at least one day prior to leaving the school and who were not discharged for an acceptable reason.

<sup>2</sup> Number of students who had been enrolled for at least one day prior to leaving the school and who were not discharged for an acceptable reason

## GOAL 1: ENGLISH LANGUAGE ARTS

### Goal 1: English Language Arts

All students at Achievement First Bushwick Charter School (AF Bushwick) will be proficient readers and writers of the English language.

### BACKGROUND

We are deeply rooted in our commitment to ensuring that scholars find true joy in reading and writing, and that they leave our program with a deep appreciation for great books, new information, and diverse perspectives. Reading is both a means to college and career readiness as well as a worthy endeavor in itself. Writing is a means not only to express oneself clearly and concisely, but an opportunity to ignite a passion for self-discovery and creative expression.

The achievement gap is both fueled and reinforced by a knowledge and vocabulary gap. We believe that building deep knowledge across a range of essential topics will ensure that students are stronger readers and can access complex, content-rich text. We select texts and writing assignments are selected intentionally to reinforce both *world* and *word* knowledge and to align with our history, science, music and art programs when appropriate.

We do not build knowledge for the sake of building knowledge. Our program aims to ensure that all students are curious citizens, intent on expanding their own knowledge of the world through asking questions, reading, writing and discussion. We aim to spark students' inquisitiveness and develop a sense of joy for building their knowledge. Students will seek new understandings and question their previous assumptions on a variety of topics, including those central to the human experience and current world landscape.

Our students must be voracious and critical readers of varied, complex literature and information text. All students will closely read rich text from diverse genres and perspectives to develop both their analytical skill and critical thinking. Texts are selected for their complexity and for their worthiness, ensuring students engage with revolutionary ideas, well-crafted arguments, and great literature. Our program is designed to help students make coherent, thoughtful arguments using sound and sufficient evidence, so that all students are able to speak and write in a manner that is insightful, persuasive and critical.

### Goal 1: Absolute Measure

Each year, 75 percent of all tested students enrolled in at least their second year will perform at or above proficiency on the New York State English language arts examination for grades 3-8.

### METHOD

The school administered the New York State Testing Program English language arts ("ELA") assessment to students in 3<sup>rd</sup> through 8<sup>th</sup> grade in April 2017. Each student's raw score has been converted to a grade-specific scaled score and a performance level.

The table below summarizes participation information for this year's test administration. The table indicates total enrollment and total number of students tested. It also provides a detailed

## ENGLISH LANGUAGE ARTS

breakdown of those students excluded from the exam. Note that this table includes all students according to grade level, even if they have not enrolled in at least their second year (defined as enrolled by BEDS day of the previous school year).

2016-17 State English Language Arts Exam  
Number of Students Tested and Not Tested

Grade	Total Tested	Not Tested <sup>3</sup>				Total Enrolled
		IEP	ELL	Absent	Refused	
3	96			2		98
4	97			0		97
5	96			0		96
6	97			0		97
7	91			0		91
8	85			3		88
All	567			5		562

## RESULTS

Overall, students enrolled in at least their second year at AF Bushwick perform better on the English Language Arts Exam than their peers.

Performance on 2016-17 State English Language Arts Exam  
By All Students and Students Enrolled in At Least Their Second Year

Grades	All Students		Enrolled in at least their Second Year	
	Percent Proficient	Number Tested	Percent Proficient	Number Tested
3	63%	96	63%	93
4	64%	97	63%	84
5	43%	96	45%	93
6	74%	97	75%	91
7	77%	91	79%	85
8	79%	85	79%	78
All	67%	567	67%	524

## EVALUATION

AF Bushwick did not achieve this goal. Across the state, scores have been significantly lower due to the shift to the Common Core Learning Standards.

## ADDITIONAL EVIDENCE

In the past three years, students at AF Bushwick in at least their second year have improved proficiency by a total of 29 percentage points.

<sup>3</sup> Students exempted from this exam according to their Individualized Education Program (IEP), because of English Language Learners (ELL) status, or absence for at least some part of the exam.

# ENGLISH LANGUAGE ARTS

## English Language Arts Performance by Grade Level and School Year

Grade	Percent of Students Enrolled in At Least Their Second Year Achieving Proficiency					
	2014-15		2015-16		2016-17	
	Percent	Number %Tested	Percent	Number Tested	Percent	Number Tested
3	32%	82	69%	80	63%	93
4	36%	76	61%	83	63%	84
5	29%	84	58%	80	45%	93
6	37%	76	56%	91	75%	91
7	34%	80	52%	83	79%	85
8	50%	82	76%	85	79%	78
All	38%	480	62%	502	67%	524

### Goal 1: Absolute Measure

Each year, the school's aggregate Performance Level Index ("PLI") on the State English language arts exam will meet the Annual Measurable Objective ("AMO") set forth in the state's NCLB accountability system.

### METHOD

The federal No Child Left Behind law holds schools accountable for making annual yearly progress towards enabling all students to be proficient. As a result, the state sets an AMO each year to determine if schools are making satisfactory progress toward the goal of proficiency in the state's learning standards in English language arts. To achieve this measure, all tested students must have a PLI value that equals or exceeds the 2016-17 English language arts AMO of 111. The PLI is calculated by adding the sum of the percent of all tested students at Levels 2 through 4 with the sum of the percent of all tested students at Levels 3 and 4. Thus, the highest possible PLI is 200.<sup>4</sup>

### RESULTS

AF Bushwick's PLI is 161, outperforming the English language arts AMO of 111.

#### English Language Arts 2016-17 Performance Level Index

Number in Cohort	Percent of Students at Each Performance Level			
	Level 1	Level 2	Level 3	Level 4
	5%	29%	45%	21%

$$\begin{array}{rclclclclcl}
 \text{PI} & = & 29 & + & 45 & + & 21 & = & 95 \\
 & & & & 45 & + & 21 & = & 66 \\
 & & & & & & \text{PLI} & = & 161
 \end{array}$$

### EVALUATION

AF Bushwick achieved this goal

<sup>4</sup> In contrast to SED's Performance Index, the PLI does not account for year-to-year growth toward proficiency.

## Goal 1: Comparative Measure

Each year, the percent of all tested students who are enrolled in at least their second year and performing at proficiency on the state English language arts exam will be greater than that of all students in the same tested grades in the school district of comparison.

## METHOD

A school compares tested students enrolled in at least their second year to all tested students in the public school district of comparison. Comparisons are between the results for each grade in which the school had tested students in at least their second year at the school and the total result for all students at the corresponding grades in the school district.<sup>5</sup>

## RESULTS

AF Bushwick students significantly outperformed their district peers at all grade levels.

2016-17 State English Language Arts Exam  
Charter School and District Performance by Grade Level

Grade	Percent of Students at Proficiency			
	Charter School Students In At Least 2nd Year		All District Students	
	Percent	Number Tested	Percent	Number Tested
3	63%	93	26%	880
4	63%	84	26%	910
5	45%	93	19%	938
6	75%	91	22%	1059
7	79%	85	31%	1057
8	79%	78	42%	1031
All	67%	524	28%	5875

## EVALUATION

AF Bushwick achieved this goal.

## ADDITIONAL EVIDENCE

AF Bushwick has consistently outperformed its district peers over the past three years.

English Language Arts Performance of Charter School and Local District  
by Grade Level and School Year

Grade	Percent of Students Enrolled in at Least their Second Year Scoring at or Above Proficiency Compared to District Students		
	2014-15	2015-16	2016-17

<sup>5</sup> Schools can acquire these data when the New York State Education Department releases its database containing grade level ELA and math test results for all schools and districts statewide. The NYSED announces the release of the data on its [News Release webpage](#).



## ENGLISH LANGUAGE ARTS

	Charter School	District	Charter School	District	Charter School	District
3	32%	15%	69%	27%	63%	26%
4	36%	15%	61%	24%	63%	26%
5	29%	17%	58%	18%	45%	19%
6	37%	24%	56%	28%	75%	22%
7	34%	20%	52%	30%	79%	31%
8	50%	25%	76%	35%	79%	42%
All	38%	19%	62%	27%	67%	28%

### Goal 1: Comparative Measure

Each year, the school will exceed its predicted level of performance on the state English language arts exam by an Effect Size of 0.3 or above (performing higher than expected to a meaningful degree) according to a regression analysis controlling for economically disadvantaged students among all public schools in New York State.

### METHOD

The SUNY Charter Schools Institute (“Institute”) conducts a Comparative Performance Analysis, which compares the school’s performance to that of demographically similar public schools statewide. The Institute uses a regression analysis to control for the percentage of economically disadvantaged students among all public schools in New York State. The Institute compares the school’s actual performance to the predicted performance of public schools with a similar concentration of economically disadvantaged students. The difference between the school’s actual and predicted performance, relative to other schools with similar economically disadvantaged statistics, produces an Effect Size. An Effect Size of 0.3, or performing higher than expected to a meaningful degree, is the requirement for achieving this measure.

Given the timing of the state’s release of economically disadvantaged data and the demands of the data analysis, the 2015-16 analysis is not yet available. This report contains 2015-16 results, the most recent Comparative Performance Analysis available.

### RESULTS

AF Bushwick’s overall effect size is 1.31. The highest performing grade was 4<sup>th</sup>, with an effect size of 1.91.

#### 2015-16 English Language Arts Comparative Performance by Grade Level

Grade	Percent Economically Disadvantaged	Number Tested	Percent of Students at Levels 3&4		Difference between Actual and Predicted	Effect Size
			Actual	Predicted		
3	<b>89%</b>	80	63%	<b>28%</b>	<b>35%</b>	<b>1.85</b>
4	<b>88%</b>	83	63%	<b>27%</b>	<b>36%</b>	<b>2.03</b>
5	<b>82%</b>	80	45%	<b>23%</b>	<b>22%</b>	<b>1.45</b>
6	<b>82%</b>	91	75%	<b>23%</b>	<b>52%</b>	<b>3.22</b>
7	<b>87%</b>	83	79%	<b>21%</b>	<b>58%</b>	<b>3.78</b>
8	<b>82%</b>	85	79%	<b>29%</b>	<b>50%</b>	<b>3.04</b>
All	<b>83%</b>	502	<b>67%</b>	<b>25%</b>	<b>42%</b>	<b>2.59</b>

<b>School's Overall Comparative Performance:</b>
<b><i>Higher than expected to a large degree</i></b>

## EVALUATION

AF Bushwick achieved this goal with a performance “higher than expected to a large degree”.

## ADDITIONAL EVIDENCE

AF Bushwick’s effect size in the 2014-15 school year was greater than its effect size in the previous two years.

English Language Arts Comparative Performance by School Year

School Year	Grades	Percent Eligible for Free Lunch/ Economically Disadvantaged	Number Tested	Actual	Predicted	Effect Size
2013-14	3-8	86%	530	35%	19%	1.16
2014-15	3-8	85%	533	37%	19%	1.31
2015-16	3-8	<b>83%</b>	502	<b>67%</b>	<b>25%</b>	2.59

### Goal 1: Growth Measure<sup>6</sup>

Each year, under the state’s Growth Model, the school’s mean unadjusted growth percentile in English language arts for all tested students in grades 4-8 will be above the state’s unadjusted median growth percentile.

## METHOD

This measure examines the change in performance of the same group of students from one year to the next and the progress they are making in comparison to other students with the same score in the previous year. The analysis only includes students who took the state exam in 2015-16 and also have a state exam score from 2014-15 including students who were retained in the same grade. Students with the same 2014-15 score are ranked by their 2015-16 score and assigned a percentile based on their relative growth in performance (student growth percentile). Students’ growth percentiles are aggregated school-wide to yield a school’s mean growth percentile. In order for a school to perform above the statewide median, it must have a mean growth percentile greater than 50.

Given the timing of the state’s release of Growth Model data, the 2015-16 analysis is not yet available. This report contains 2015-16 results, the most recent Growth Model data available.<sup>7</sup>

<sup>6</sup> See Guidelines for [Creating a SUNY Accountability Plan](#) for an explanation.

<sup>7</sup> Schools can acquire these data from the NYSED’s Business Portal: [portal.nysed.gov](http://portal.nysed.gov).

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### RESULTS

AF Bushwick's overall Mean Growth Percentile is 57, above the statewide median of 50. The highest growth was seen in the sixth grade.

2015-16 English Language Arts Mean Growth Percentile by Grade Level

Grade	Mean Growth Percentile	
	School	Statewide Median
4	47	50.0
5	52	50.0
6	68	50.0
7	58	50.0
8	61	50.0
All	57	50.0

### EVALUATION

AF Bushwick achieved this goal.

### ADDITIONAL EVIDENCE

AF Bushwick has had a mean growth percentile above 50 in each of the past three years.

English Language Arts Mean Growth Percentile by Grade Level and School Year

Grade	Mean Growth Percentile			Statewide Median
	2013-14	2014-15	2015-16	
4	51	51	48	50.0
5	51	51	54	50.0
6	44	44	70	50.0
7	57	57	72	50.0
8	60	61	74	50.0
All	53	53	64	50.0

### SUMMARY OF THE ENGLISH LANGUAGE ARTS GOAL

AF Bushwick achieved three out of the four goals.

Type	Measure	Outcome
Absolute	Each year, 75 percent of all tested students who are enrolled in at least their second year will perform at proficiency on the New York State English language arts exam for grades 3-8.	Did Not Achieve
Comparative	Each year, the percent of all tested students who are enrolled in at least their second year and performing at proficiency on the state English	Achieved

## ENGLISH LANGUAGE ARTS

	language arts exam will be greater than that of students in the same tested grades in the school district of comparison.	
Comparative	Each year, the school will exceed its predicted level of performance on the state English language arts exam by an Effect Size of 0.3 or above (performing higher than expected to a small degree) according to a regression analysis controlling for economically disadvantaged students among all public schools in New York State. (Using 2015-16 results.)	Achieved
Growth	Each year, under the state's Growth Model the school's mean unadjusted growth percentile in English language arts for all tested students in grades 4-8 will be above the state's unadjusted median growth percentile. (Using 2015-16 results.)	Achieved

## HIGH SCHOOL ENGLISH LANGUAGE ARTS

### Goal 1: Absolute Measure

Each year, 65 percent of students in the high school Accountability Cohort will meet the college and career readiness standard (currently scoring 75 on the New York State Regents English exam OR fully meeting Common Core expectations on the Regents Exam in English Language Arts (Common Core)) by the completion of their fourth year in the cohort.

### METHOD

The school administered the Regents Exam in English Language Arts (Common Core) that students must pass to graduate. The school scores Regents on a scale from 0 to 100. The State Education Department currently defines the college and career readiness standard as scoring 75 on the New York State Regents English exam or Level 4 (meeting Common Core expectations) on the Regents in Exam in English Language Arts (Common Core).<sup>8</sup> This measure examines the percent of the Accountability Cohort that passed the exam by the completion of their fourth year in the cohort. Students have until the summer of their fourth year to do so.

### RESULTS

For all three cohorts, AF Bushwick students had a percent passing rate above 65%.

#### English Regents Passing Rate with a Score of 75 or Level 4 on Common Core Exam by Fourth Year Accountability Cohort<sup>9</sup>

Cohort Designation	Number in Cohort	Percent Passing with a score of 75 or Level 4 on Common Core exam
2011	26	88%

<sup>8</sup> The statewide adaptation of new State Standards includes incorporating college and career readiness performance standards for the English language arts exam. The state has benchmarked student ELA test performance to the likely need for remedial course work when students enter college by comparing student 3-8 test results and Regents results to their post-secondary experience at SUNY and CUNY. Besides raising the cut scores for proficiency in the 3-8 testing program, the state has begun to set college and career readiness standards for passing Regents.

<sup>9</sup> Based on the highest score for each student on the English Regents exam

## ENGLISH LANGUAGE ARTS

2012	40	85%
2013	36	88%

### EVALUATION

AF Bushwick achieved this goal.

### ADDITIONAL EVIDENCE

With the shift to the Common Core Regents Exams, AF Bushwick students are now taking the English exam later in their high school careers.

#### English Regents Passing Rate with a score of 75 or Level 4 (Common Core) by Cohort and Year

Cohort Designation	2014-15		2015-16		2016-17	
	Number in Cohort	Percent Passing	Number in Cohort	Percent Passing	Number in Cohort	Percent Passing
2013	56	12%	56	15%	36	N/A
2014	68	N/A	64	N/A	52	71%
2015			58	N/A	57	N/A
2016					63	N/A

#### Goal 1: Absolute Measure

Each year, 65 percent of students in the high school Accountability Cohort who did not score proficient on their New York State 8<sup>th</sup> grade English language arts exam will meet the college and career readiness standard (currently scoring 75 on the New York State Regents English exam OR fully meeting Common Core expectations on the Regents Exam in English Language Arts (Common Core)) by the completion of their fourth year in the cohort.

### METHOD

The school demonstrates the effectiveness of its English language arts program by enabling students who were not meeting proficiency standards in the eighth grade to meet the English requirement for the college and career readiness standard.

### RESULTS

AF Bushwick had 76% of students who weren't proficient in 8<sup>th</sup> grade reach the college and career readiness standard.

#### English Regents Passing Rate with a Score of 75 or Level 4 on Common Core exam among Students Who Were Not Proficient in the 8<sup>th</sup> Grade by Fourth Year Accountability Cohort <sup>10</sup>

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<sup>10</sup> Based on the highest score for each student on the English Regents exam

## ENGLISH LANGUAGE ARTS

Cohort Designation	Number in Cohort	Percent Passing with a score of 75 or Level 4 on Common Core exam
2011	14	57%
2012	22	77%
2013	37	76%

### EVALUATION

AF Bushwick achieved this goal.

### ADDITIONAL EVIDENCE

This is the second year in a row that AF Bushwick achieved this goal.

#### Goal 1: Absolute Measure

Each year, the Accountability Performance Level (“APL”) on the Regents English exam of students completing their fourth year in the Accountability Cohort will meet the Annual Measurable Objective (“AMO”) set forth in the state’s NCLB accountability system.

### METHOD

In receiving a waiver for its federal No Child Left Behind accountability system, the New York State Education Department now holds high schools accountable for making annual yearly progress towards meeting college and career readiness standards. See page 72 of SED’s ESEA waiver application for the high school AMOs:

[www.p12.nysed.gov/accountability/documents/NYSESEAFlexibilityWaiver\\_REVISED.pdf](http://www.p12.nysed.gov/accountability/documents/NYSESEAFlexibilityWaiver_REVISED.pdf)

The AMO continues to be SED’s basis for determining if schools are making satisfactory progress toward the annual goal. To achieve this measure, all tested students in the Accountability Cohort must have an Accountability Performance Level (APL) that equals or exceeds the 2016-17 English language arts AMO of **178**.

The APL is calculated by adding the sum of the percent of students in the Accountability Cohort at Levels 2 through 4 to the sum of the percent of students at Level 3 and 4. Thus, the highest possible APL is 200. The Regents exam in Comprehensive English is scored on a scale from 0 to 100; 0 to 64 is Level 1, 65 to 74 is Level 2, 75 to 89 is Level 3, and 90 to 100 is Level 4. The Regents Common Core Examination in English is scored on a scale from 0 to 100; 0 to 64 is level 1, 65 to 78 is level 2; 79 to 84 is level 3, and 85 to 100 is level 4.

### RESULTS

AF Bushwick students had an APL of 188, above the AMO of 178.

#### English Language Arts Accountability Performance Level (APL) For the 2013 High School Accountability Cohort

Number in Cohort	Percent of Students at Each Performance Level			
	Level 1	Level 2	Level 3	Level 4
	0%	12%	39%	49%

## ENGLISH LANGUAGE ARTS

$$\begin{array}{rclclclclcl}
 \text{PI} & = & 12 & + & 39 & + & 49 & = & 100 \\
 & & & & 39 & + & 49 & = & \underline{88} \\
 & & & & & & \text{APL} & = & 188
 \end{array}$$

### EVALUATION

AF Bushwick achieved this goal.

#### Goal 1: Comparative Measure

Each year, the Accountability Performance Level (“APL”) in Regents English of students in the fourth year of their high school Accountability Cohort will exceed the APL of comparable students from the school district of comparison.

### METHOD

The school compares the performance of students in their fourth year in the charter school Accountability Cohort to that of the respective cohort of students in the school district of comparison. Given that students may take Regents exam up through the summer of their fourth year, the school presents most recently available school district results.

### RESULTS

AF Bushwick achieved this goal for the 2011 cohort.

English Regents Accountability Performance Level (APL)<sup>11</sup>  
of Fourth-Year Accountability Cohorts by Charter School and School District

Cohort	Charter School		School District	
	APL	Cohort Size	APL	Cohort Size
2011	188	26	113	543
2012	165	40	N/A	N/A
2013	188	36	N/A	N/A

### EVALUATION

AF Bushwick achieved this goal.

### SUMMARY OF THE HIGH SCHOOL ENGLISH LANGUAGE ARTS GOAL <sup>12</sup>

AF Bushwick was able to achieve all three goals for which data is currently available.

Type	Measure	Outcome
Absolute	Each year, 65 percent of students in the high school Accountability Cohort will meet the college and career ready standard (currently scoring 75 on the	Achieved

<sup>11</sup> For an explanation of the procedure to calculate the school’s APL, see page 31.

<sup>12</sup> If the school includes a middle school component, add these measures to the subject area goal for the younger grades.

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	New York State Regents English exam OR fully meeting Common Core expectations on the Regents Exam in English Language Arts (Common Core)) by the completion of their fourth year in the cohort.	
Absolute	Each year, 65 percent of students in the high school Accountability Cohort who did not score proficient on their New York State 8th grade English language arts exam will meet the college and career ready standard (currently scoring 75 on the New York State Regents English exam OR fully meeting Common Core expectations on the Regents Exam in English Language Arts (Common Core)) by the completion of their fourth year in the cohort.	Achieved
Absolute	Each year, the Accountability Performance Level (APL) on the Regents English exam of students completing their fourth year in the Accountability Cohort will meet the Annual Measurable Objective (AMO) set forth in the state's NCLB accountability system.	Achieved
Comparative	Each year, the Accountability Performance Level (APL) in Regents English of students in the fourth year of their high school Accountability Cohort will exceed the APL of comparable students from the school district of comparison. (Using 2015-16 school district results.)	N/A

### ACTION PLAN

We strongly support the rigorous Common Core aligned tests, and we have invested heavily in adapting the academic program to meet these college preparatory standards. In 2017-18 we will continue increasing the complexity of texts our scholars are reading, as well as the quality of instruction to support scholars both in building fundamental skills and developing higher order inquiry and analysis skills. Specifically, we will continue to on the following priorities in the 2017-18 school year:

1. Top quality oral and written responses – ensuring that teachers push and support scholars to produce work that is 100% correct and requires complex thinking.
2. Increased focus on text-dependent questions – supporting scholars to do close reading, annotate text, and use evidence in responses.
3. Additional time for vocabulary instruction – ensuring that instructional time is dedicated daily to building academic vocabulary.

The Achievement First network support team has created extensive guiding materials in each of these areas. In addition to curriculum, these materials include skill specific “Fundamentals of Instruction,” which provide a theoretical and practical background for best instructional practices, and intellectual preparation protocol. These resources will be used by coaches within the context of the regular coaching process to develop teacher skill in each of these areas





## GOAL 2: MATHEMATICS

### Goal 2: Mathematics

Students will demonstrate competency in the understanding and application of mathematical computation and problem solving.

### BACKGROUND

For students to thrive in the world they will face after college, they must be able to make sense of the world through a mathematical lens. Therefore, learning mathematics requires more than learning facts and procedures for solving certain types of problems. A well-prepared student will develop proficiency and expertise in a number of mathematical practices that have longstanding importance in mathematics education.

In the mathematics program at Achievement First Bushwick, mathematical practices come to life through the shifts (focus, coherence, rigor) called for by the Common Core State Standards. We will continue to refine the components of and resources for the program, on our path to seeing these practices and shifts embodied by our students and driving instruction.

#### Tenets of Achievement First's Mathematics Program:

1. Conceptual Understanding: comprehension of mathematical concepts, operations, and relations
  - While developing conceptual understanding, students make meaning of mathematics and make connections across mathematical ideas which allows for rapid acquisition of new knowledge, greater retention, and ability to apply in novel contexts.
2. Procedural Fluency: skill in carrying out procedures flexibly, accurately, efficiently, and appropriately
  - The development of procedural fluency allows students to focus mental energy on flexibly approaching and thinking through problems, rather than the steps to perform an accurate calculation.
3. Strategic Competence & Adaptive Reasoning: ability to formulate, represent, and solve mathematical problems; capacity for logical thought, reflection, explanation, and justification
  - The development of these habits of mind prepares students to solve mathematical problems that they may encounter throughout the rest of their academic and social lives.
4. Productive Disposition: habitual inclination to see mathematics as sensible, useful, and worthwhile, coupled with a belief in diligence and one's own efficacy.

## MATHEMATICS

- Students approach challenging situations as opportunities to learn and mistakes made along the way as times for feedback and reflection, not representations of personal failure. This productive disposition is the hallmark of having a growth mindset as opposed to one that is fixed.
5. **Problem Solving:** the umbrella under which all the opportunities to increase proficiency and expertise with the mathematical practices fall
- While students engage in problem solving they are making sense of problems, thinking strategically about concept and skill applications, planning and executing a viable approach, and reflecting on process and solutions.

### Goal 2: Absolute Measure

Each year, 75 percent of all tested students enrolled in at least their second year will perform at proficiency on the New York State mathematics examination for grades 3-8.

## METHOD

The school administered the New York State Testing Program mathematics assessment to students in 3<sup>rd</sup> through 4<sup>th</sup> grade in April 2017. Each student's raw score has been converted to a grade-specific scaled score and a performance level.

The table below summarizes participation information for this year's test administration. The table indicates total enrollment and total number of students tested. It also provides a detailed breakdown of those students excluded from the exam. Note that this table includes all students according to grade level, even if they have not enrolled in at least their second year.

2016-17 State Mathematics Exam  
Number of Students Tested and Not Tested

Grade	Total Tested	Not Tested <sup>13</sup>				Total Enrolled
		IEP	ELL	Absent	Refused	
3	96			2		98
4	97			0		97
5	96			0		96
6	97			0		97
7	91			0		91
8	85			3		88
All	557			5		562

## RESULTS

Overall, AF Bushwick students were 84% proficient. There was only one grade, 5<sup>th</sup>, in which the goal was not met missing it by only six percentage points.

Performance on 2016-17 State Mathematics Exam  
By All Students and Students Enrolled in At Least Their Second Year

<sup>13</sup> Students exempted from this exam according to their Individualized Education Program (IEP), because of English Language Learners (ELL) status, or absence for at least some part of the exam.

Grades	All Students		Enrolled in at least their Second Year	
	Percent Proficient	Number Tested	Percent Proficient	Number Tested
3	89%	96	88%	94
4	86%	97	78%	84
5	67%	100	69%	93
6	87%	97	88%	91
7	86%	92	87%	85
8	92%	85	93%	81
All	85%	567	84%	528

## EVALUATION

AF Bushwick achieved this goal

## ADDITIONAL EVIDENCE

AF Bushwick has shown steady improvement in overall proficiency.

### Mathematics Performance by Grade Level and School Year

Grade	Percent of Students Enrolled in At Least Their Second Year Achieving Proficiency					
	2014-15		2015-16		2016-17	
	Percent	Number Tested	Percent	Number Tested	Percent	Number Tested
3	59%	82	89%	81	88%	94
4	76%	76	72%	83	78%	84
5	60%	84	80%	80	69%	93
6	74%	76	76%	91	88%	91
7	68%	81	86%	83	87%	85
8	66%	83	85%	86	93%	81
All	67%	482	81%	504	84%	528

### Goal 2: Absolute Measure

Each year, the school's aggregate Performance Level Index ("PLI") on the State mathematics exam will meet the Annual Measurable Objective ("AMO") set forth in the state's NCLB accountability system.

## METHOD

The federal No Child Left Behind law holds schools accountable for making annual yearly progress towards enabling all students to be proficient. As a result, the state sets an AMO each year to determine if schools are making satisfactory progress toward the goal of proficiency in the state's learning standards in mathematics. To achieve this measure, all tested students must have a PLI

## MATHEMATICS

value that equals or exceeds the 2016-17 mathematics AMO of **109**. The PLI is calculated by adding the sum of the percent of all tested students at Levels 2 through 4 with the sum of the percent of all tested students at Levels 3 and 4. Thus, the highest possible PLI is 200.<sup>14</sup>

### RESULTS

AF Bushwick's PLI is 180, well above the AMO of 109.

#### Mathematics 2016-17 Performance Level Index (PLI)

Number in Cohort	Percent of Students at Each Performance Level			
	Level 1	Level 2	Level 3	Level 4
	2%	14%	36%	47%

$$\begin{array}{rclclclclcl}
 \text{PI} & = & 14 & + & 36 & + & 47 & = & 97 \\
 & & & & 36 & + & 47 & = & \underline{83} \\
 & & & & & & \text{PLI} & = & 180
 \end{array}$$

### EVALUATION

AF Bushwick achieved this goal.

#### Goal 2: Comparative Measure

Each year, the percent of all tested students who are enrolled in at least their second year and performing at proficiency on the state mathematics exam will be greater than that of all students in the same tested grades in the school district of comparison.

### METHOD

A school compares the performance of tested students enrolled in at least their second year to that of all tested students in the public school district of comparison. Comparisons are between the results for each grade in which the school had tested students in at least their second year at the school and the total result for all students at the corresponding grades in the school district.<sup>15</sup>

### RESULTS

AF Bushwick students outperform their district peers at all grade levels.

#### 2016-17 State Mathematics Exam Charter School and District Performance by Grade Level

Grade	Percent of Students at Proficiency			
	Charter School Students In At Least 2 <sup>nd</sup> Year		All District Students	
	Percent	Number Tested	Percent	Number Tested

<sup>14</sup> In contrast to NYSED's Performance Index, the PLI does not account for year-to-year growth toward proficiency.

<sup>15</sup> Schools can acquire these data when the New York State Education Department releases its database containing grade level ELA and math test results for all schools and districts statewide. The NYSED announces the release of the data on its [News Release webpage](#).

## MATHEMATICS

3	88%	94	33%	907
4	78%	84	27%	938
5	69%	93	27%	955
6	88%	91	20%	1083
7	87%	85	22%	1082
8	93%	81	15%	964
All	84%	528	33%	907

### EVALUATION

AF Bushwick achieved this goal.

### ADDITIONAL EVIDENCE

AF Bushwick has consistently outperformed their district peers over the past three years.

Mathematics Performance of Charter School and Local District  
by Grade Level and School Year

Grade	Percent of Students Enrolled in at Least their Second Year Who Are at Proficiency Compared to Local District Students					
	2014-15		2015-16		2016-17	
	Charter School	District	Charter School	District	Charter School	District
3	59%	23%	89%	23%	88%	33%
4	76%	22%	72%	25%	78%	27%
5	60%	25%	80%	19%	69%	27%
6	74%	27%	76%	22%	88%	20%
7	68%	19%	86%	21%	87%	22%
8	66%	7%	85%	11%	93%	15%
All	67%	21%	81%	20%	84%	33%

### Goal 2: Comparative Measure

Each year, the school will exceed its predicted level of performance on the state mathematics exam by an Effect Size of 0.3 or above (performing higher than expected to a meaningful degree) according to a regression analysis controlling for economically disadvantaged students among all public schools in New York State.

### METHOD

The Institute conducts a Comparative Performance Analysis, which compares the school's performance to that of demographically similar public schools statewide. The Institute uses a regression analysis to control for the percentage of economically disadvantaged students among all public schools in New York State. The Institute compares the school's actual performance to the predicted performance of public schools with a similar concentration of economically disadvantaged students. The difference between the school's actual and predicted performance, relative to other schools with similar economically disadvantaged statistics, produces an Effect Size. An Effect Size of 0.3, or performing higher than expected to a meaningful degree, is the requirement for achieving this measure.

## MATHEMATICS

Given the timing of the state’s release of economically disadvantaged data and the demands of the data analysis, the 2016-17 analysis is not yet available. This report contains 2015-16 results, the most recent Comparative Performance Analysis available.

### RESULTS

AF Bushwick’s overall effect size was 3.05, with the highest effect size in the 8<sup>th</sup> grade.

#### 2015-16 Mathematics Comparative Performance by Grade Level

Grade	Percent Economically Disadvantaged	Number Tested	Percent of Students at Levels 3&4		Difference between Actual and Predicted	Effect Size
			Actual	Predicted		
3	<b>89%</b>	96	89%	<b>31%</b>	<b>58%</b>	<b>2.63</b>
4	<b>88%</b>	97	86%	<b>30%</b>	<b>56%</b>	<b>2.81</b>
5	<b>82%</b>	100	67%	<b>27%</b>	<b>40%</b>	<b>2.13</b>
6	<b>82%</b>	97	87%	<b>26%</b>	<b>61%</b>	<b>2.97</b>
7	<b>87%</b>	92	86%	<b>17%</b>	<b>69%</b>	<b>3.64</b>
8	<b>82%</b>	85	92%	<b>15%</b>	<b>77%</b>	<b>4.31</b>
All	<b>83%</b>	<b>567</b>	<b>85%</b>	<b>25%</b>	<b>60%</b>	<b>3.05</b>

#### School’s Overall Comparative Performance:

*Higher than expected to a large degree*

### EVALUATION

AF Bushwick achieved this goal with a performance of “Higher than expected to a large degree”.

### ADDITIONAL EVIDENCE

AF Bushwick has consistently achieved this goal in each of the past three years.

#### Mathematics Comparative Performance by School Year

School Year	Grades	Percent Eligible for Free Lunch/ Economically Disadvantaged	Number Tested	Actual	Predicted	Effect Size
2013-14	3-8	86%	527	65%	23%	2.18
2014-15	3-8	85%	535	66%	23%	2.30
2015-16	3-8	<b>83%</b>	<b>567</b>	<b>85%</b>	<b>25%</b>	3.05

#### Goal 2: Growth Measure<sup>16</sup>

<sup>16</sup> See Guidelines for [Creating a SUNY Accountability Plan](#) for an explanation.

## MATHEMATICS

Each year, under the state’s Growth Model, the school’s mean unadjusted growth percentile in mathematics for all tested students in grades 4-8 will be above the state’s unadjusted median growth percentile.

### METHOD

This measure examines the change in performance of the same group of students from one year to the next and the progress they are making in comparison to other students with the same score in the previous year. The analysis only includes students who took the state exam in 2015-16 and also have a state exam score in 2014-15 including students who were retained in the same grade. Students with the same 2014-15 scores are ranked by their 2015-16 scores and assigned a percentile based on their relative growth in performance (student growth percentile). Students’ growth percentiles are aggregated school-wide to yield a school’s mean growth percentile. In order for a school to perform above the statewide median, it must have a mean growth percentile greater than 50.

Given the timing of the state’s release of Growth Model data, the 2015-16 analysis is not yet available. This report contains 2015-16 results, the most recent Growth Model data available.<sup>17</sup>

AF Bushwick’s overall Mean Growth Percentile is 64, above the statewide median.

#### 2015-16 Mathematics Mean Growth Percentile by Grade Level

Grade	Mean Growth Percentile	
	School	Statewide Median
4	<b>48</b>	50.0
5	<b>54</b>	50.0
6	<b>70</b>	50.0
7	<b>72</b>	50.0
8	<b>74</b>	50.0
All	<b>64</b>	50.0

### EVALUATION

AF Bushwick achieved this goal.

### ADDITIONAL EVIDENCE

AF Bushwick has had a mean growth percentile above the state median in each of the past three years.

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<sup>17</sup> Schools can acquire these data from the NYSED’s business portal: [portal.nysed.gov](http://portal.nysed.gov).



Mathematics Mean Growth Percentile by Grade Level and School Year

Grade	Mean Growth Percentile			
	2013-14	2015-16	2015-16	Statewide Median
4	67	67	<b>48</b>	50.0
5	57	57	<b>54</b>	50.0
6	55	55	<b>70</b>	50.0
7	66	66	<b>72</b>	50.0
8	67	67	<b>74</b>	50.0
All	62	62	<b>64</b>	50.0

## SUMMARY OF THE MATHEMATICS GOAL

AF Bushwick achieved four out of the four goals.

Type	Measure	Outcome
Absolute	Each year, 75 percent of all tested students who are enrolled in at least their second year will perform at proficiency on the New York State mathematics exam for grades 3-8.	Achieved
Comparative	Each year, the percent of all tested students who are enrolled in at least their second year and performing at proficiency on the state mathematics exam will be greater than that of students in the same tested grades in the school district of comparison.	Achieved
Comparative	Each year, the school will exceed its predicted level of performance on the state mathematics exam by an Effect Size of 0.3 or above (performing higher than expected to a small degree) according to a regression analysis controlling for economically disadvantaged students among all public schools in New York State. (Using 2015-16 school district results.)	Achieved
Growth	Each year, under the state's Growth Model the school's mean unadjusted growth percentile in mathematics for all tested students in grades 4-8 will be above the state's unadjusted median growth percentile.	Achieved

## HIGH SCHOOL MATHEMATICS

### Goal 2: Absolute Measure

Each year, 65 percent of students in the high school Accountability Cohort will meet the college and career readiness standard (currently scoring 80 on a New York State Regents math exam OR fully meeting Common Core expectations on a Regents Common Core mathematics exam) by the completion of their fourth year in the cohort.

# MATHEMATICS

## METHOD

The school administered the New York State Regents Algebra I (Common Core), Geometry, Geometry (Common Core), Algebra 2/Trigonometry, and/or Algebra II (Common Core) exams. The school scores Regents on a scale from 0 to 100. The State Education Department defines the college and career readiness standard as scoring 80 or Level 4 on a Common Core exam (fully meeting Common Core expectations).<sup>18</sup> This measure requires students in each Accountability Cohort to achieve the requisite score on any one of the Regents mathematics exams by their fourth year in the cohort. Students may have taken a particular Regents mathematics exam multiple times or have taken multiple mathematics exams. Students have until the summer of their fourth year to pass a mathematics exam.

## RESULTS

59% of the 2013 Cohort has scored above an 80 on at least one of the Regents Mathematics exams.

### Mathematics Regents Passing Rate with a Score of 80 or Level 4 on Common Core Exam by Fourth Year Accountability Cohort<sup>19</sup>

Cohort Designation	Number in Cohort	Percent Passing with a score of 80 or Level 4 on Common Core exam
2011	26	73%
2012	40	88%
2013	36	59%

## EVALUATION

AF Bushwick did not achieve this goal.

## ADDITIONAL EVIDENCE

A large percentage of AF Bushwick students narrowly missed the 80+ threshold, scoring 75+.

### Mathematics Regents Passing Rate with a score of 80 or Level 4(Common Core) by Cohort and Year

Cohort Designation	2014-15		2015-16		2016-17	
	Number in Cohort	Percent Passing	Number in Cohort	Percent Passing	Number in Cohort	Percent Passing
2013	56	71%	56	76%	36	N/A
2014	68	20%	64	28%	52	N/A
2015			58	45%	57	18%
2016					63	71%

<sup>18</sup> The statewide adaptation of the revised State Standards includes incorporating college and career readiness performance standards for the English language arts exam. The state has benchmarked student mathematics test performance to the likely need for remedial course work when students enter college by comparing student 3-8 test results and Regents results to their post-secondary experience at SUNY and CUNY. Besides raising the cut scores for proficiency in the 3-8 testing program, the state has begun to set college and career readiness standards for passing Regents.

<sup>19</sup> Based on the highest score for each student on the Mathematics Regents exam

## MATHEMATICS

### Goal 2: Absolute Measure

Each year, 65 percent of students in the high school Accountability Cohort who did not score proficient on their New York State 8<sup>th</sup> grade math exam will meet the college and career ready standard (currently scoring 80 on a New York State Regents math exam OR fully meeting Common Core expectations on a Regents Common Core mathematics exam) by the completion of their fourth year in the cohort.

### METHOD

The school demonstrates the effectiveness of its mathematics program by enabling students who were not meeting proficiency standards in the eighth grade to meet the mathematics requirement for the college and career readiness standard.

### RESULTS

AF Bushwick had 0% of students who weren't proficient in 8<sup>th</sup> grade reach the college and career readiness standard.

Mathematics Regents Passing Rate with a Score of 80 or Level 4 on Common Core exam among Students Who Were Not Proficient in 8<sup>th</sup> Grade by Fourth Year Accountability Cohort <sup>20</sup>

Cohort Designation	Number in Cohort	Percent Passing with a score of 80 or Level 4 on Common Core exam
2011	0	N/A
2012	0	N/A
2013	12	0%

### EVALUATION

AF Bushwick did not achieve this goal.

### Goal 2: Absolute Measure

Each year, the Accountability Performance Level ("APL") on a Regents mathematics exam of students completing their fourth year in the Accountability Cohort will meet the Annual Measurable Objective (AMO) set forth in the state's NCLB accountability system.

### METHOD

In receiving a waiver for its federal No Child Left Behind accountability system, the State Education Department now law holds high schools accountable for making annual yearly progress towards meeting college and career readiness standards. See page 72 of SED's ESEA waiver application for the high school AMOs:

[http://www.p12.nysed.gov/accountability/documents/NYSESEAFlexibilityWaiver\\_REVISED.pdf](http://www.p12.nysed.gov/accountability/documents/NYSESEAFlexibilityWaiver_REVISED.pdf)

<sup>20</sup> Based on the highest score for each student on the Mathematics Regents exam

## MATHEMATICS

The AMO continues to be SED’s basis for determining if schools are making satisfactory progress toward the annual goal. To achieve this measure, all tested students in the Accountability Cohort must have an Accountability Performance Level (APL) that equals or exceeds 2016-17 mathematics AMO of 165.

The APL is calculated by adding the sum of the percent of students in the Accountability Cohort at Levels 2 through 4 to the sum of the percent of students at Level 3 and 4. Thus, the highest possible APL is 200. The Regents exams are scored on a scale from 0 to 100; 0 to 64 is Level 1, 65 to 79 is Level 2, 80 to 89 is Level 3, and 90 to 100 is Level 4. The Regents Common Core exams in mathematics are scored on a scale from 0 to 100; 0 to 64 is level 1; 65 to 73 is level 2, 74 to 84 is level 3, and 85 to 100 is level 4.

### RESULTS

AF Bushwick’s 2013 cohort had an APL of 154, below the AMO of 165.

Mathematics Accountability Performance Level (APL) For the 2013 High School Accountability Cohort				
Number in Cohort	Percent of Students at Each Performance Level			
	Level 1	Level 2	Level 3	Level 4
36	13%	18%	54%	14%
$  \begin{array}{r}  \text{PI} = 18 + 54 + 14 = 86 \\  \text{APL} = 54 + 14 = 68 \\  \text{APL} = 154  \end{array}  $				

### EVALUATION

AF Bushwick did not meet this goal.

#### Goal 2: Comparative Measure

Each year, the Accountability Performance Level (APL) in mathematics of students in the fourth year of their high school Accountability Cohort will exceed the APL of comparable students from the school district of comparison.

### METHOD

The school compares the performance of students in their fourth year in the charter school Accountability Cohort to that of the respective cohort of students in the school district of comparison. Given that students may take Regents exam up through the summer of their fourth year, the school presents most recently available school district results.

### RESULTS

Data for AF Bushwick’s host district was not available.

#### Mathematics Accountability Performance Level (APL)

# MATHEMATICS

## of Fourth-Year Accountability Cohorts by Charter School and School District<sup>21</sup>

Cohort	Charter School		School District	
	APL	Cohort Size	APL	Cohort Size
2011	181	26	91	543
2012	195	40	N/A	N/A
2013	154	90	N/A	N/A

## EVALUATION

N/A

## SUMMARY OF THE HIGH SCHOOL MATHEMATICS GOAL <sup>22</sup>

AF Bushwick did not achieve any of the goals for which it was eligible in 2016-17.

Type	Measures	Outcome
Absolute	Each year, 65 percent of students in the high school Accountability Cohort will meet the college and career ready standard (currently scoring 80 on a New York State Regents mathematics exam OR fully meeting Common Core expectations on a Regents Common Core mathematics exam) by the completion of their fourth year in the cohort.	Did Not Achieve
Absolute	Each year, 65 percent of students in the high school Accountability Cohort who did not score proficient on their New York State 8th grade mathematics exam will meet the college and career ready standard (currently scoring 80 on a New York State Regents mathematics exam OR fully meeting Common Core expectations on a Regents Common Core mathematics exam) by the completion of their fourth year in the cohort.	Did Not Achieve
Absolute	Each year, the Accountability Performance Level (APL) on the Regents English exam of students completing their fourth year in the Accountability Cohort will meet the Annual Measurable Objective (AMO) set forth in the state's NCLB accountability system.	Did Not Achieve
Comparative	Each year, the Accountability Performance Level (APL) on a New York State Regents mathematics exam of students in the fourth year of their high school Accountability Cohort will exceed the APL of comparable students from the school district of comparison. (Using 2015-16 school district results.)	N/A

## ACTION PLAN

AF Bushwick will continue the core improvement strategies established over the last two years. We will continue upgrading the curricular resources available to teachers as described under the ELA section of this Progress Report. Additionally, AF Bushwick teachers participated in increased math-specific professional development during summer training, and will continue to receive weekly coaching. Additionally, math interventions for struggling students in grades K-4 will be more systematic, and will be triggered by the NWEA Math for Primary Grades assessment to ensure that

<sup>21</sup> See page 39 above for an explanation of the APL.

<sup>22</sup> If the school includes a middle school component, add these measures to the subject area goal for the younger grades.

## MATHEMATICS

every struggling student receives tailored extra support, and interventions will be triggered at middle and high school levels by Achievement First interim assessments.

## GOAL 3: SCIENCE

### Goal 3: Science

#### AF BACKGROUND

Our program is designed to ensure that students develop the skills and understandings necessary to be prepared for introductory college level science courses and ultimately the careers of their choice, including (but not limited to) careers in science, engineering, and technology. Our program goes beyond the floor set by current external assessments to ensure that all performance expectations set forth in the Next Generation Science Standards are met. The rigor of content, concepts, and practices gradually increases in complexity from grade band to grade band, to ensure that our scholars have the knowledge and skills to choose careers in STEM.

The program is driven by the National Research Council's Framework for K-12 Science Education, which states: "To develop a thorough understanding of scientific explanations of the world, students need sustained opportunities to work with and develop the underlying ideas and to appreciate those ideas' interconnections over a period of years rather than weeks or months." To accomplish this goal, students build background knowledge and an understanding of science by deeply engaging with a focused set of core ideas and practices throughout their educational experience. Through this intensive approach, they will build expertise and use their expertise to make sense of new information or tackle problems.

The Next Generation Science Standards call for us to teach the practices or methods of science and engineering within our content and to focus on the many methods and practices of science and engineering rather than a single method. In order to support meaningful learning in science and engineering, our science program integrates core ideas of the discipline, science and engineering practices, crosscutting concepts, and Common Core literacy and mathematics. In grades K-8, the program is based on integrated science scope & sequences produced by Achievement First, which draw on a variety of resources from educational publishers, external content experts, and internally designed materials.

#### Goal 3: Absolute Measure

Each year, 75 percent of all tested students enrolled in at least their second year will perform at proficiency on the New York State science examination.

#### METHOD

The school administered the New York State Testing Program science assessment to students in 4<sup>th</sup> and 8<sup>th</sup> grade in spring 2017. The school converted each student's raw score to a performance level

## SCIENCE

and a grade-specific scaled score. The criterion for success on this measure requires students enrolled in at least their second year to score at proficiency.

### RESULTS

AF Bushwick's overall proficiency was 91%, greater than the goal of 75%.

#### Charter School Performance on 2016-17 State Science Exam By All Students and Students Enrolled in At Least Their Second Year

Grade	Percent of Students at Proficiency			
	Charter School Students In At Least 2 <sup>nd</sup> Year		All District Students	
	Percent Proficient	Number Tested	Percent Proficient	Number Tested
4	98%	97	n/a	n/a
8	82%	83	n/a	n/a
All	91%	180	n/a	n/a

### EVALUATION

AF Bushwick achieved this goal.

### ADDITIONAL EVIDENCE

AF Bushwick has increased overall proficiency over the past three years.

#### Science Performance by Grade Level and School Year

Grade	Percent of Students Enrolled in At Least Their Second Year at Proficiency					
	2014-15		2015-16		2016-17	
	Percent Proficient	Number Tested	Percent	Number Tested	Percent Proficient	Number Tested
4	96%	76	95%	82	98%	97
8	76%	83	87%	79	82%	83
All	86%	159	91%	161	91%	180

#### Goal 3: Comparative Measure

Each year, the percent of all tested students enrolled in at least their second year and performing at proficiency on the state science exam will be greater than that of all students in the same tested grades in the school district of comparison.

### METHOD

The school compares tested students enrolled in at least their second year to all tested students in the public school district of comparison. Comparisons are between the results for each grade in which the school had tested students in at least their second year and the results for the respective grades in the school district of comparison.



RESULTS

Because district results are not public, we are unable to say whether or not AF Bushwick achieved this goal.

2016-17 State Science Exam  
Charter School and District Performance by Grade Level

Grade	Percent of Students at Proficiency			
	Charter School Students In At Least 2 <sup>nd</sup> Year		All District Students	
	Percent Proficient	Number Tested	Percent Proficient	Number Tested
4	98%	97	n/a	n/a
8	82%	83	n/a	n/a
All	91%	180	n/a	n/a

EVALUATION

N/A

ADDITIONAL EVIDENCE

AF Bushwick has outperformed their district peers in 2014-15, but we currently do not have comparison data for the last two years.

Science Performance of Charter School and Local District  
by Grade Level and School Year

Grade	Percent of Charter School Students at Proficiency and Enrolled in At Least their Second Year Compared to Local District Students					
	2014-15		2015-16		2016-17	
	Charter School	District	Charter School	District	Charter School	District
4	96%	75%	95%	N/A	98%	n/a
8	76%	41%	87%	N/A	82%	n/a
All	86%	58%	91%	N/A	91%	n/a

SUMMARY OF THE SCIENCE GOAL

AF Bushwick achieved the goal for which all required data is available.

Type	Measure	Outcome
Absolute	Each year, 75 percent of all tested students enrolled in at least their second year will perform at proficiency on the New York State examination.	Achieved
Comparative	Each year, the percent of all tested students enrolled in at least their second year and performing at proficiency on the state exam will be greater than that of all students in the same tested grades in the school district of comparison.	N/A

## HIGH SCHOOL SCIENCE

**Goal 3: Absolute Measure**

Each year, 75 percent of students in the high school Accountability Cohort will score at least 65 on a New York State Regents science exam by the completion of their fourth year in the cohort.

## METHOD

New York State schools administer multiple high school science assessments; current Regent exams are Living Environment, Earth Science, Chemistry and Physics. The school administered Living Environment and Chemistry. It scores Regents on a scale from 0 to 100; students must score at least 65 to pass. This measure requires students in each Accountability Cohort to pass any one of the Regents science exams by their fourth year in the cohort. Students may have taken a particular Regents science exam multiple times or have taken multiple science exams. Students have until the summer of their fourth year to pass a science exam.

## RESULTS

100% of AF Bushwick High School students have passed at least one Science Regents Exam.

Science Regents Passing Rate with a Score of 65  
by Fourth Year Accountability Cohort<sup>23</sup>

Cohort Designation	Number in Cohort	Percent Passing with a score of 65
2011	26	100%
2012	40	100%
2013	90	100%

## EVALUATION

AF Bushwick achieved this goal.

## ADDITIONAL EVIDENCE

AF Bushwick has begun administering Regents exams later in students' high school careers. This shift is the reason passing rates seem lower than in previous years. By their senior year, students will have passed all required Regents exams.

Science Regents Passing Rate with a score of 65 by Cohort and Year

Cohort Designation	2014-15		2015-16		2016-17	
	Number in Cohort	Percent Passing	Number in Cohort	Percent Passing	Number in Cohort	Percent Passing
2013	56	57%	56	93%	36	100%
2014	68	3%	64	3%	52	87%
2015			58	N/A	57	N/A

<sup>23</sup> Based on the highest score for each student on any science Regents exam

## SCIENCE

2016					63	N/A
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### Goal 3: Comparative Measure

Each year, the percent to students in the high school Total Cohort passing a Regents science exam with a score of 65 or above will exceed that of the high school Total Cohort from the school district of comparison.

### METHOD

The school compares the performance of students in their fourth year in the charter school high school Total Cohort to that of the respective cohort of students in the school district of comparison. Given that students may take Regents exam up through the summer of their fourth year, the school presents most recently available district results.

### RESULTS

#### Science Regents Passing Rate of the High School Total Cohort by Charter School and School District

Cohort	Charter School		School District	
	Percent Passing	Cohort Size	Percent Passing	Cohort Size
2011	100%	26		
2012	100%	40	N/A	N/A
2013	100%	90	N/A	N/A

## EVALUATION

N/A

## GOAL 4: SOCIAL STUDIES

**Goal 4: Social Studies**

AF Bushwick student will develop the historical knowledge and skills necessary to be successful in college and to prepare them to be leaders in their communities.

**Goal 4: Absolute Measure**

Each year, 75 percent of students in the high school Accountability Cohort will score at least 65 on the New York State Regents U.S. History exam by the completion of their fourth year in the cohort.

## METHOD

New York State administers two high school social studies assessments: U.S. History and Global History. In order to graduate, students must pass both of these Regents exams with a score of 65 or higher. This measure requires students in each Accountability Cohort to pass the two exams by the completion of their fourth year in the cohort. Students may have taken the exams multiple times and have until the summer of their fourth year to pass it. Once students pass it, performance on subsequent administrations of the same exam do not affect their status as passing.

## RESULTS

AF Bushwick's 2013 cohort has a 83% passing rate of the US History Regents exam, above the goal of 75%.

U.S. History Regents Passing Rate with a Score of 65  
by Fourth Year Accountability Cohort<sup>24</sup>

Cohort Designation	Number in Cohort	Percent Passing with a score of 65
2011	26	100%
2012	40	95%
2013	36	83%

## EVALUATION

AF Bushwick achieved this goal.

<sup>24</sup> Based on the highest score for each student on a science Regents exam

## ADDITIONAL EVIDENCE

AF Bushwick students have historically done well on their US History Regents exams

### U.S. History Regents Passing Rate with a score of 65 by Cohort and Year

Cohort Designation	2014-15		2015-16		2016-17	
	Number in Cohort	Percent Passing	Number in Cohort	Percent Passing	Number in Cohort	Percent Passing
2013	56	N/A	56	93%	36	N/A
2014	68	N/A	64	16%	52	100%
2015			58	N/A	57	42%
2016					63	N/A

#### Goal 4: Comparative Measure

Each year, the percent to students in the high school Total Cohort passing the Regents U.S. History exam with a score of 65 or above will exceed that of the high school Total Cohort from the school district of comparison.

## METHOD

The school compares the performance of students in their fourth year in the charter school high school Total Cohort to that of the respective cohort of students in the school district of comparison. Given that students may take Regents exam up through the summer of their fourth year, school presents the most recently available district results.

## RESULTS

### U.S. History Passing Rate of the High School Total Cohort by Charter School and School District

Cohort	Charter School		School District	
	Percent Passing	Cohort Size	Percent Passing	Cohort Size
2011	100%	26		
2012	95%	40	N/A	N/A
2013	83%	36		

## EVALUATION

N/A, district results not available.

#### Goal 4: Absolute Measure

Each year, 75 percent of students in the high school Accountability Cohort will score at least 65 on the New York State Regents Global History exam by the completion of their fourth year in the cohort.

## METHOD

This measure requires students in each Accountability Cohort to pass the Global History exam by the completion of their fourth year in the cohort. Students may have taken the exam multiple times, and had until the summer of their fourth year to pass it. Once students pass it, performance on subsequent administrations of the same exam do not affect their status as passing.

## RESULTS

AF Bushwick's 2013 cohort has an 95% passing rate of the US History Regents exam, above the goal of 75%.

Global History Regents Passing Rate with a Score of 65  
by Fourth Year Accountability Cohort<sup>25</sup>

Cohort Designation	Number in Cohort	Percent Passing with a score of 65
2011	26	100%
2012	40	85%
2013	36	95%

## EVALUATION

AF Bushwick achieved this goal.

## ADDITIONAL EVIDENCE

AF Bushwick students take the Global History Regents exam in their sophomore year, and have performed well in all cohorts.

Global History Regents Passing Rate with a score of 65 by Cohort and Year

Cohort Designation	2014-15		2015-16		2016-17	
	Number in Cohort	Percent Passing	Number in Cohort	Percent Passing	Number in Cohort	Percent Passing
2013	56	81%	56	81%	36	N/A
2014	68	N/A	64	61%	52	43%
2015			58	N/A	57	79%
2016					63	N/A

### Goal 4: Comparative Measure

Each year, the percent of students in the high school Total Cohort passing the Regents Global History exam with a score of 65 or above will exceed that of the high school Total Cohort from the school district of comparison.

<sup>25</sup> Based on the highest score for each student on a science Regents exam

## METHOD

The school compares the performance of students in their fourth year in the charter school high school Total Cohort to that of the respective cohort of students in the school district of comparison. Given that students may take Regents exam up through the summer of their fourth year, the school presents most recently available district results.

## RESULTS

Global History Passing Rate  
of the High School Total Cohort by Charter School and School District

Cohort	Charter School		School District	
	Percent Passing	Number in Cohort	Percent Passing	Number in Cohort
2011	100%	26		
2012	85%	40	N/A	N/A
2013	95%	36		

## EVALUATION

N/A District data not available.

## GOAL 5: NCLB

### Goal 5: NCLB

The school will make Adequate Yearly Progress

#### Goal 5: Absolute Measure

Under the state’s NCLB accountability system, the school’s Accountability Status is in good standing: the state has not identified the school as a Focus School nor determined that it has met the criteria to be identified as school requiring a local assistance plan.

### METHOD

Because *all* students are expected to meet the state's learning standards, the federal No Child Left Behind legislation stipulates that various sub-populations and demographic categories of students among all tested students must meet state proficiency standards. New York, like all states, established a system for making these determinations for its public schools. Each year the state issues School Report Cards. The report cards indicate each school’s status under the state’s No Child Left Behind (“NCLB”) accountability system.

### RESULTS

AF Bushwick is in Good Standing

### EVALUATION

AF Bushwick achieved this goal

### ADDITIONAL EVIDENCE

AF Bushwick has been in Good Standing in each of the past 3 years.

NCLB Status by Year

Year	Status
2014-15	Good Standing
2015-16	Good Standing
2016-17	Good Standing



## GOAL 6: HIGH SCHOOL GRADUATION

### Goal 5: Absolute Measure

Each year, 75 percent of students in first and second year high school Total Graduation Cohorts will earn at least ten credits (if 44 needed for graduation) or five credits (if 22 needed for graduation) each year.

### METHOD

This measure serves as a leading indicator of the performance of high school cohorts and examines their progress toward graduation based on annual credit accumulation. The measure requires that, based on the school’s promotion requirements, the school will promote 75 percent of its students in each cohort to the next grade by the end of August OR that 75 percent of the first and second year high school Total Graduation Cohorts will earn the requisite number of credits.

Course	# of Credits - NY
Literature (9 – 12)	4
Writing (9 – 12)	4
Mathematics (to at least Pre-Calculus)	4
Science (to include Biology, Chemistry, Physics)	4
History (to include US and Global; Econ/Gov’t in NY)	4
College Readiness Seminar	1
College Readiness - Health	.5
College Readiness - SAT Prep	1
Foreign Language	1
Electives (not including Art/PE/Composition/CRS)	4
Art/Music	1
P.E.	2
<b>Non–Course Requirements</b>	<b>NY</b>
Completion of approved summer program	3 credits
ELA Regents	Score of 75
Algebra Regents	Score of 75
One additional Math Regents	Score of 65
One additional Science Regents	Score of 65
US History Regents	Score of 65
Global History Regents	Score of 65
Required Community Service hours	Yes

## APPENDIX B: SUPPLEMENTARY TABLES

### RESULTS

89% of AF Bushwick sophomores were promoted to the next grade. 100% of AF Bushwick freshman were promoted to the next grade.

Percent of Students in First and Second Year Cohorts  
Earning the Required Number of Credits in 2016-17

Cohort Designation	Number in Cohort	Percent promoted
2015	57	89%
2016	63	100%

### EVALUATION

AF Bushwick achieved this goal.

#### Goal 6: Absolute Measure

Each year, 75 percent of students in the second year high school Total Graduation Cohort will score 65 on at least three different New York State Regents exams required for graduation.

### METHOD

This measure serves as a leading indicator of the performance of high school cohorts and examines their progress towards graduation based on Regents exam passage. The measure requires that 75 percent of students in each cohort have passed at least three Regents exams by their second year in the cohort. In August of 2017, the 2015 cohort will have completed its second year.

### RESULTS

61% of the sophomore cohort at AF Bushwick have passed at least 3 Regents examinations.

Percent of Students in their Second Year Passing Three Regents Exams by Cohort

Cohort Designation	Number in Cohort	Percent Passing Three Regents
2013	36	100%
2014	52	80%
2015	57	68%

### EVALUATION

AF Bushwick did not achieve this goal.

#### Goal 6: Absolute Measure

Each year, 75 percent of students in the fourth year high school Total Graduation Cohort and 95 percent of students in the fifth year high school Total Graduation Cohort will graduate.

### METHOD

This measure examines students in two high school Graduation Cohorts: those who entered the 9<sup>th</sup> grade as members of the 2013 cohort and graduated four years later and those who entered as

## APPENDIX B: SUPPLEMENTARY TABLES

members of the 2012 cohort and graduated five years later. At a minimum, these students have passed five Regents exams required for high school graduation in English language arts, mathematics, science, U.S. History and Global History or met the requirements for the 4+1 pathway to graduation.<sup>26</sup> Students have through the summer at the end of their fourth year to complete graduation requirements.

The school's graduation requirements appear above under the graduation goal's first measure pertaining to annual grade-by-grade promotion or credit accumulation.

### RESULTS

81% of AF Bushwick students in the 2013 cohort graduated with four years. 95% of AF Bushwick students in the 2012 cohort graduated within 5 years.

Percent of Students in the Graduation Cohort who have Graduated After Four Years

Cohort Designation	Number in Cohort	Percent Graduating
2011	26	92%
2012	40	88%
2013	52	81%

Percent of Students in Graduation Cohort Who Have Graduated After Five Years

Cohort Designation	Number in Cohort	Percent Graduating
2010	n/a	n/a
2011	26	96%
2012	39	95%

### EVALUATION

AF Bushwick achieved this goal.

#### Goal 6: Comparative Measure

Each year, the percent of students in the high school Total Graduation Cohort graduating after the completion of their fourth year will exceed that of the Total Graduation Cohort from the school district of comparison.

### METHOD

The school compares the graduation rate of students completing their fourth year in the charter school's Total Graduation Cohort to that of the respective cohort of students in the school district of comparison<sup>27</sup>. Given that students may take Regents exams through the summer of their fourth year, district results for the current year are generally not available at this time.

<sup>26</sup> The state's guidance for the 4+1 graduation pathway can be found here: <http://www.p12.nysed.gov/ciaj/multiple-pathways/>.

<sup>27</sup> Schools can retrieve district level graduation rates from the SED's Information and Reporting Services office. News releases and an Excel workbook containing these data are available from the [IRS Data Release webpage](#).

## APPENDIX B: SUPPLEMENTARY TABLES

### RESULTS

2013 Cohort data for school district is not available.

Percent of Students in the Total Graduation Cohort who Graduate in Four Years Compared to the District

Cohort Designation	Charter School		School District	
	Number in Cohort	Percent Graduating	Number in Cohort	Percent Graduating
2011	26	92%	667	53.5%
2012	40	88%	655	62%
2013	52	81%	N/A	N/A

### EVALUATION

N/A

### SUMMARY OF THE HIGH SCHOOL GRADUATION GOAL

AF Bushwick achieved three out of four goals for which it was eligible.

Type	Measure	Outcome
Absolute	Each year, 75 percent of students in first and second year high school Total Graduation Cohorts will earn at least ten credits (if 44 needed for graduation) or five credits (if 22 needed for graduation) each year.	Achieved
Absolute	Each year, 75 percent of students in the high school Total Graduation Cohort will score at least 65 on at least three different New York State Regents exams required for graduation by the completion of their second year in the cohort.	Did Not Achieve
Absolute	Each year, 75 percent of students in the fourth year high school Total Graduation Cohort and 95 percent of students in the fifth year high school Total Graduation Cohort will graduate.	Achieved
Comparative	Each year, the percent of students in the high school Total Graduation Cohort graduating after the completion of their fourth year will exceed that of the Total Graduation Cohort from the school district of comparison.	N/A

### ACTION PLAN

AF Bushwick high school will continue to provide a rigorous academic program, reinforce its strong school culture, and explicitly support students to build the “habits of success” necessary to succeed in college and beyond. These core components of the high school program are specifically designed to help AF Bushwick students graduate high school ready for success in college and beyond.