

STUDENT PERFORMANCE REPORT

Irvington Union Free School District

Report to the Board of Education

February 2017

Monitoring Student Growth

- Standardized test data is only one measure of student achievement and does not necessarily demonstrate growth
- State tests have limits to their value:
 - Represents performance on a given day(s)
 - Cohort sizes hinder direct comparisons
 - Consistent changes in test models, scale and cut scores, & curriculum standards
- The District utilizes multiple means of assessment to measure progress including:
 - Teacher observation
 - Regular, formative assessment
 - Common unit assessments
 - Teacher-made assessments
 - Benchmark assessments, universal screener
 - Student self-reflection
 - Student choice/participation in electives
- Value of dispositional learning: 21st Century Skills & Habits of Mind
- Rich extracurricular opportunities such as arts, music, athletics, and clubs

Executive Summary

Irvington Schools continue to perform at very high levels

- 95% of 2017 class received Regents Diplomas
- SAT scores - A new format was used in 2017 - the categories are:
 - ERW (Evidenced-based Reading and Writing) 13% higher than US average
 - Math 25% higher
 - Total 18% higher
- ACT score 32% higher than national average
- 21 AP Class offerings: 72% passing (vs average of 68% over last 4 years), 43% of all exam-takers received 4 or 5

Irvington High School Scholar Athletes Recognized by Team

NYS Scholar Athlete = 90 or higher GPA

- **2002-03:** 14 Teams Honored, 4 Teams with Top Student Averages in the Group
- **2003-04:** 16 Teams Honored, 2 Teams with NYS Highest GPA, 4 League Champions
- **2004-05:** 14 Teams Honored, 3 Teams with NYS Highest GPA, 2 League Champions
- **2005-06:** 14 Teams Honored
- **2007-08:** 20 recognized as NYS Scholar Athlete teams . Boys Bowling and Boys Soccer highest GPA in NYS for their sport
- **2008-09:** 24 recognized as NYS Scholar Athlete teams . Boys and Girls Track teams highest GPA in NYS for their sport
- **2009-10:** 22 recognized as NYS Scholar Athlete teams. Girls cross country, bowling and softball teams highest GPA in NYS for their sport
- **2010-11:** 20 recognized as NYS Scholar Athlete teams. Three teams with highest average GPA in NYS for their sport
- **2011-12:** 22 out of 27 Varsity Teams Recognized as NYS Scholar Athlete teams (90 or higher GPA). Two teams with highest average GPA in NYS for their sport
- **2012-13:** 22 out of 27 Varsity Teams Recognized as NYS Scholar Athlete teams (90 or higher GPA). Two teams with highest average GPA in NYS for their sport
- **2013-14:** 21 out of 27 Varsity Teams Recognized as NYS Scholar Athlete teams (90 or higher GPA). Three teams with highest average GPA in NYS for their sport
- **2014-15:** 16 varsity teams honored as NYS Scholar Athlete teams (above 90 avg.) and 1 team was a NYS Scholar Athlete Champion as highest GPA's in the state
- **2015-16:** 6 varsity teams recognized as NY State Scholar Athlete Team Champions, highest GPA for their sport in the state; 14 varsity teams in all were recognized as State Scholar Athlete teams, with an average GPA of 90 or above.
- **2016-17:** 227 varsity students achieved status as NY State Scholar Athletes with a average GPA of 90 or above during their sports season. 21 varsity teams were recognized by NY State as Scholar Athlete Teams. This means that 75% of the entire team roster had a 90 or better average. As a result of having 21 of 24 teams with a 90 average or better, NYSPHSAA recognized Irvington as a School of Excellence for having at least 75% of all varsity teams achieve Scholar Athlete Team status.

Opportunities

- The District continues to use test data as one tool to inform our work
- Data is used to lead meaningful discussions to target cohort needs and inform curricula design
- The District has focused on deepening instruction and aligning curricula – this work will continue to enhance student achievement
- The District's focus on Professional Learning has had positive impacts on student growth
- Data usage continues to increase at all levels to help inform instruction

Note:

State test data does not necessarily depict growth but demonstrates achievement on the particular test

Executive Summary – Standardized Tests

- Irvington English Language Arts scores rank among the top 6 in our measured cohort of schools for grades 6-8; we continue to see improvement from our efforts in this area
- For Math standardized tests, our IMS 8th grade scores are impacted by the cohort of students taking the advanced level course (Algebra) as they take the Algebra Regents instead
- Regents Scores (% passing):

Algebra I 96%	English 94%	Earth Science 93%
Algebra II 96%	Global History 97%	Living Environment 96%
Geometry 94%	US History 95%	Chemistry 98%

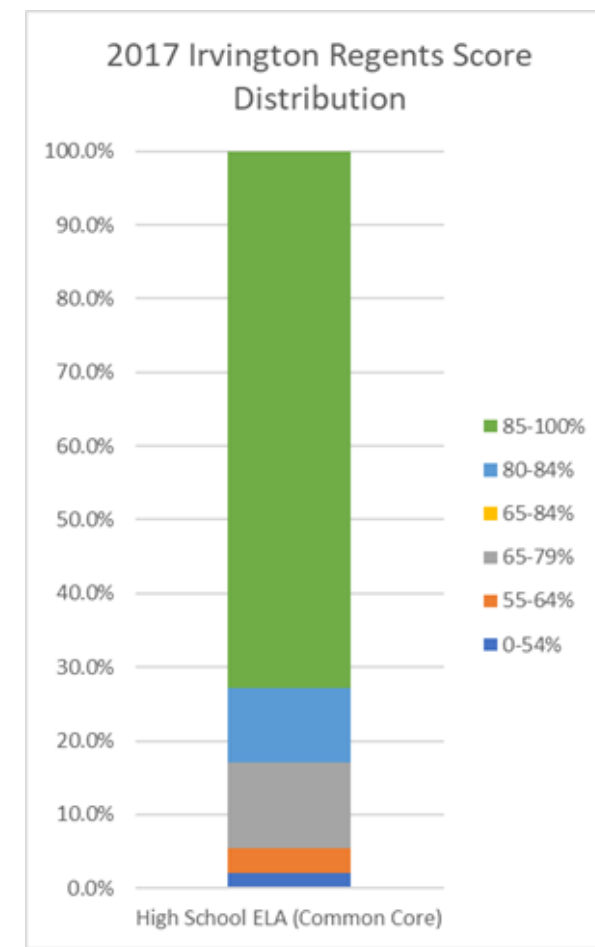
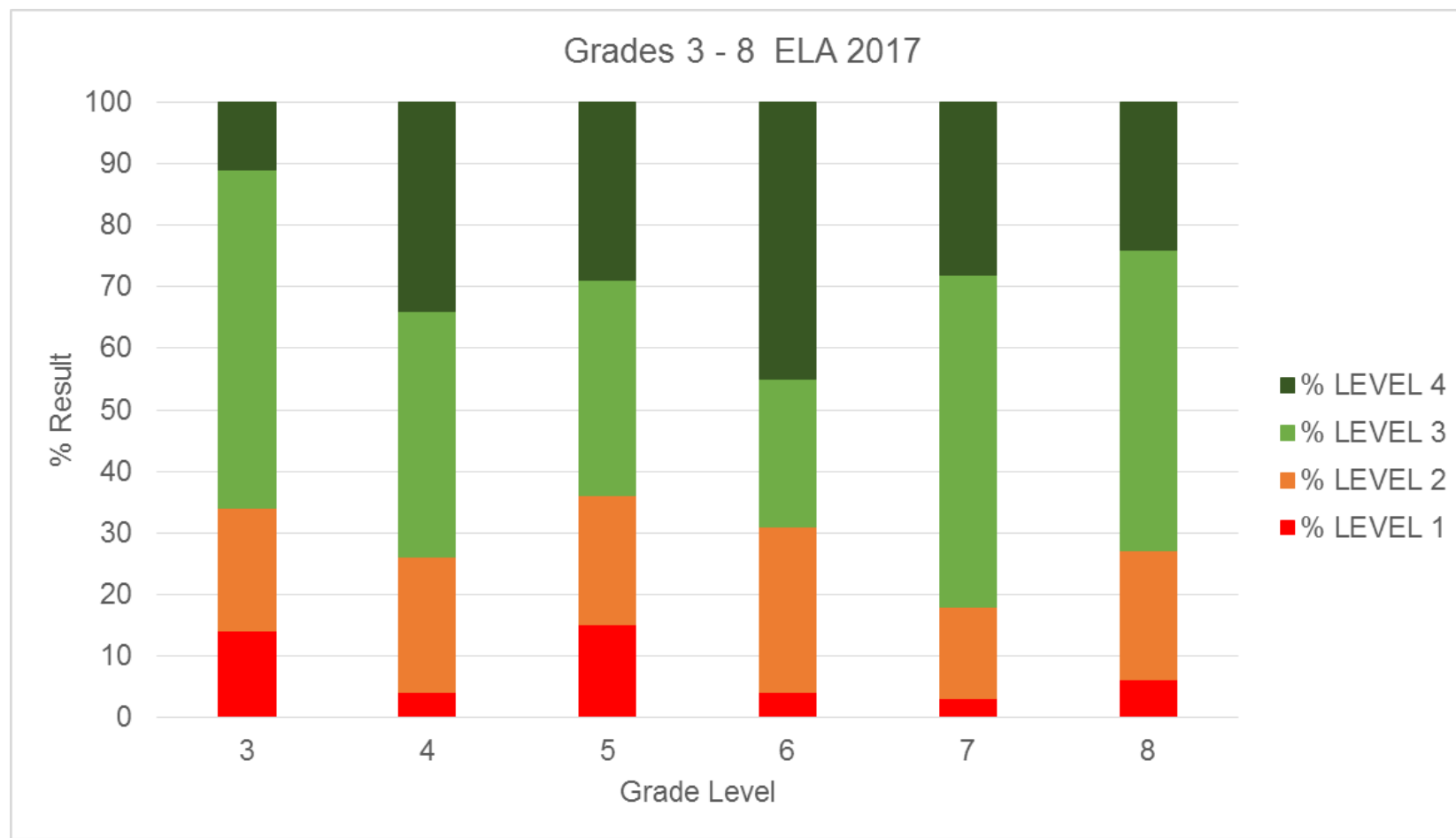
Executive Summary – Standardized Tests

- Teachers utilize released questions to aid in the planning of instruction
- Use data reports to identify which standards posed challenges for individual students
- Informs small group and whole group instruction
- In math, use data at math learning sessions
- Interventionists target support using data
- Team meeting time used to review data

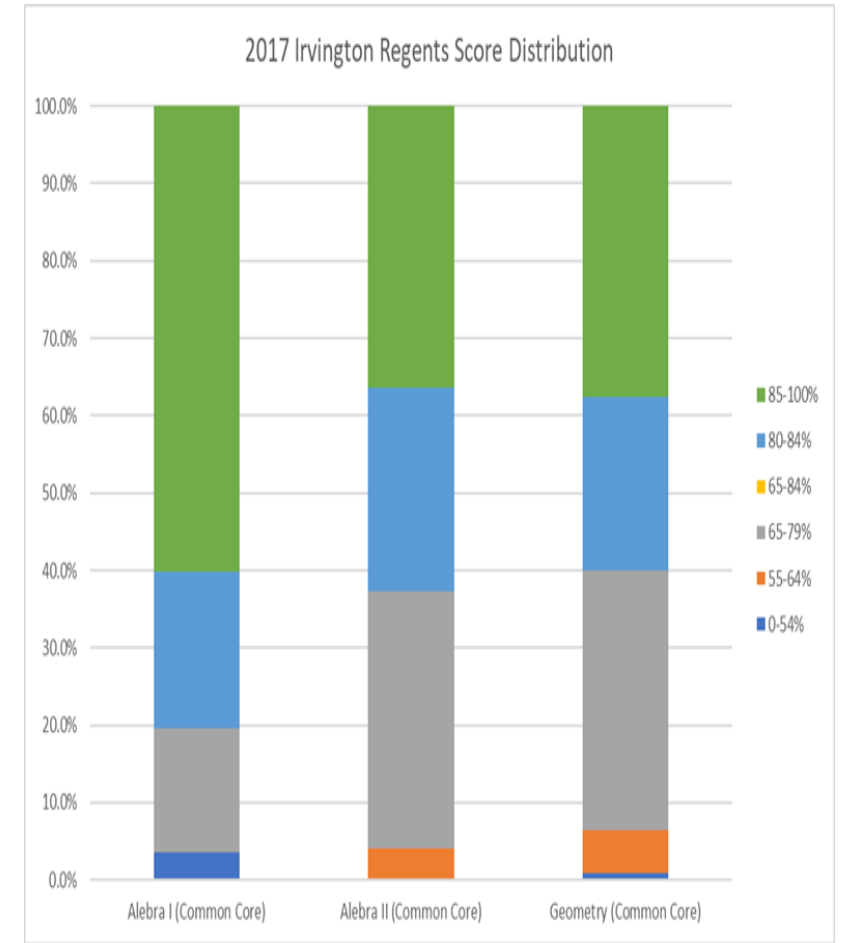
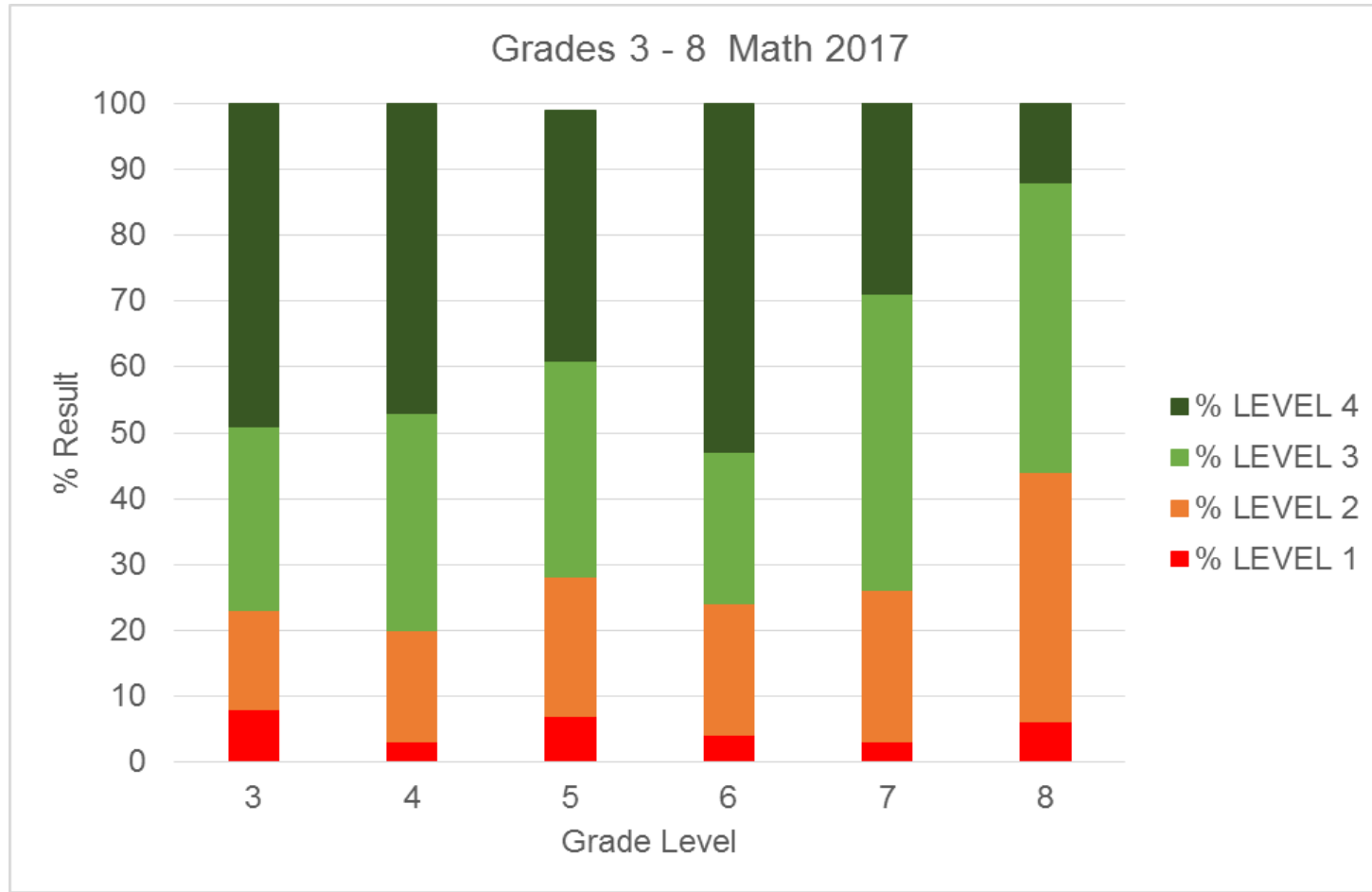
New York State Tests

English Language Arts & Mathematics

2017 English Language Arts Scores



2017 Mathematics Scores



Comparative Data

Grade 3 - 8 Tests & Regents Exams

Comparison Data

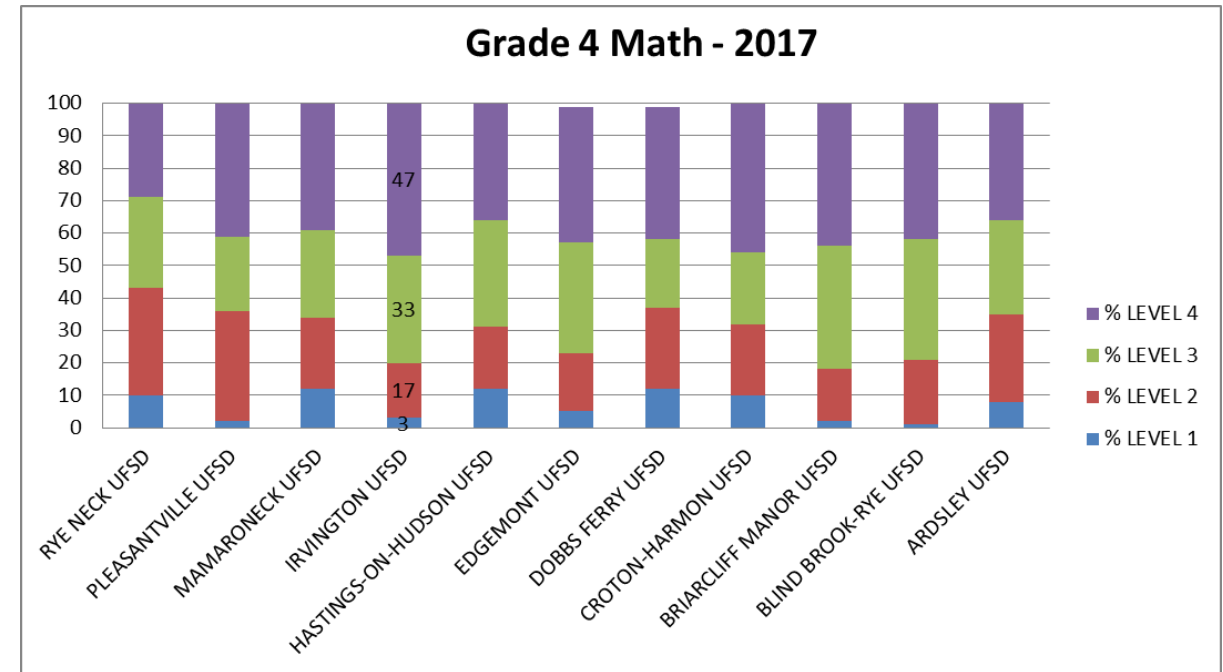
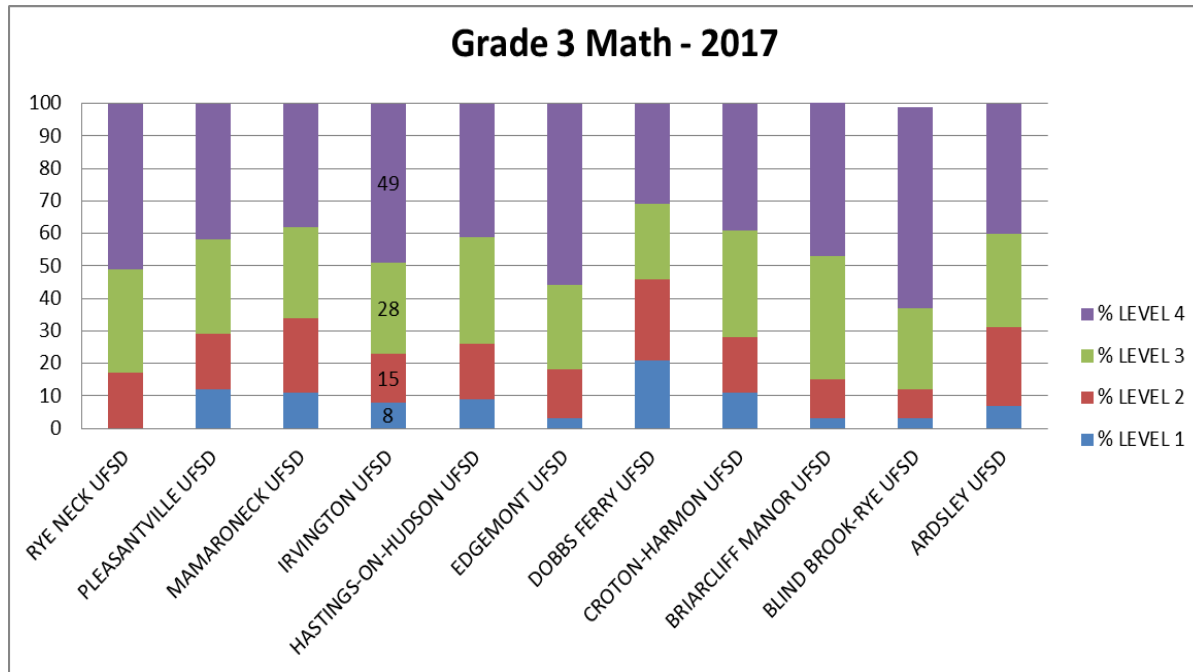
To better understand how Irvington students performed in context of comparative districts, the following slides include data for the following districts:

- Ardsley
- Blind Brook
- Briarcliff Manor
- Croton-Harmon
- Dobbs Ferry
- Edgemont
- Hastings-on-Hudson
- Irvington
- Mamaroneck
- Pleasantville
- Rye Neck

Mathematics - Grade 3 - 8

2017 Math - Grades 3 & 4

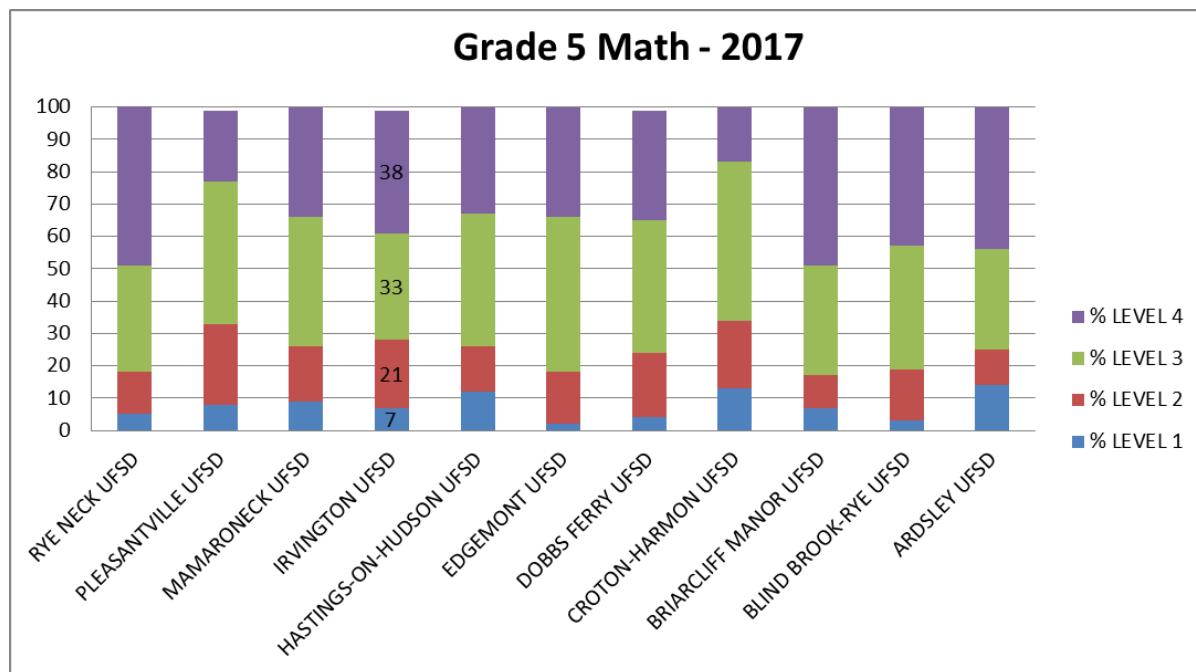
Score Distribution vs Comparison Cohort of Westchester Schools



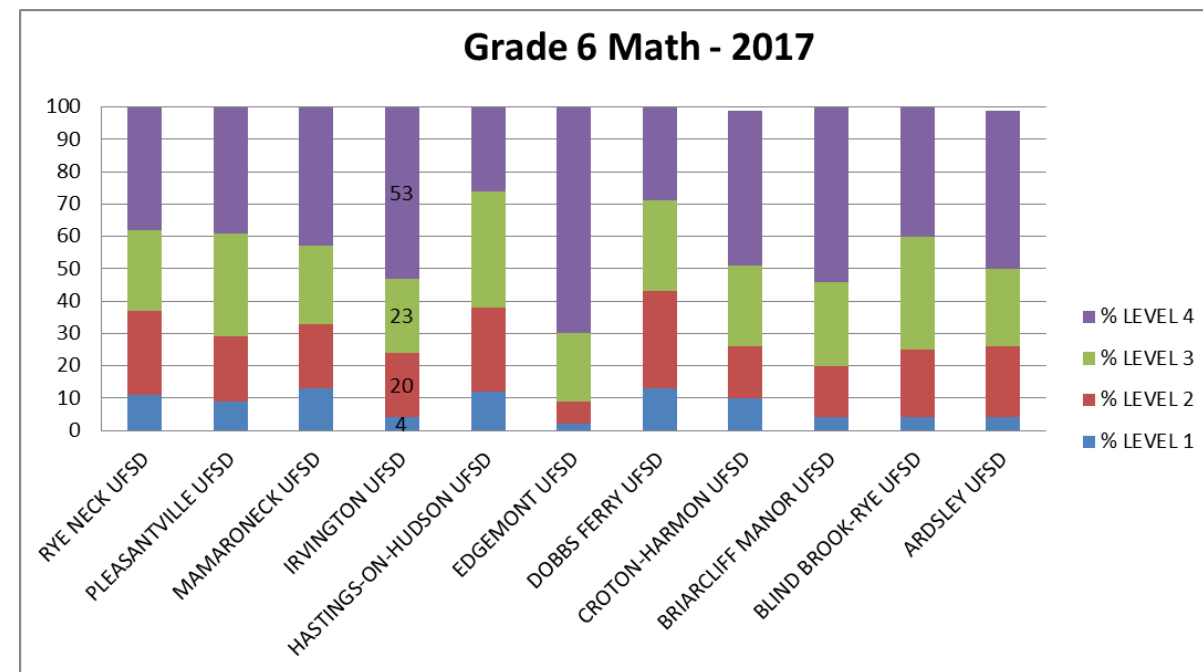
2017 Math - Grades 5 & 6

Score Distribution vs Comparison Cohort of Westchester Schools

Grade 5 Math - 2017

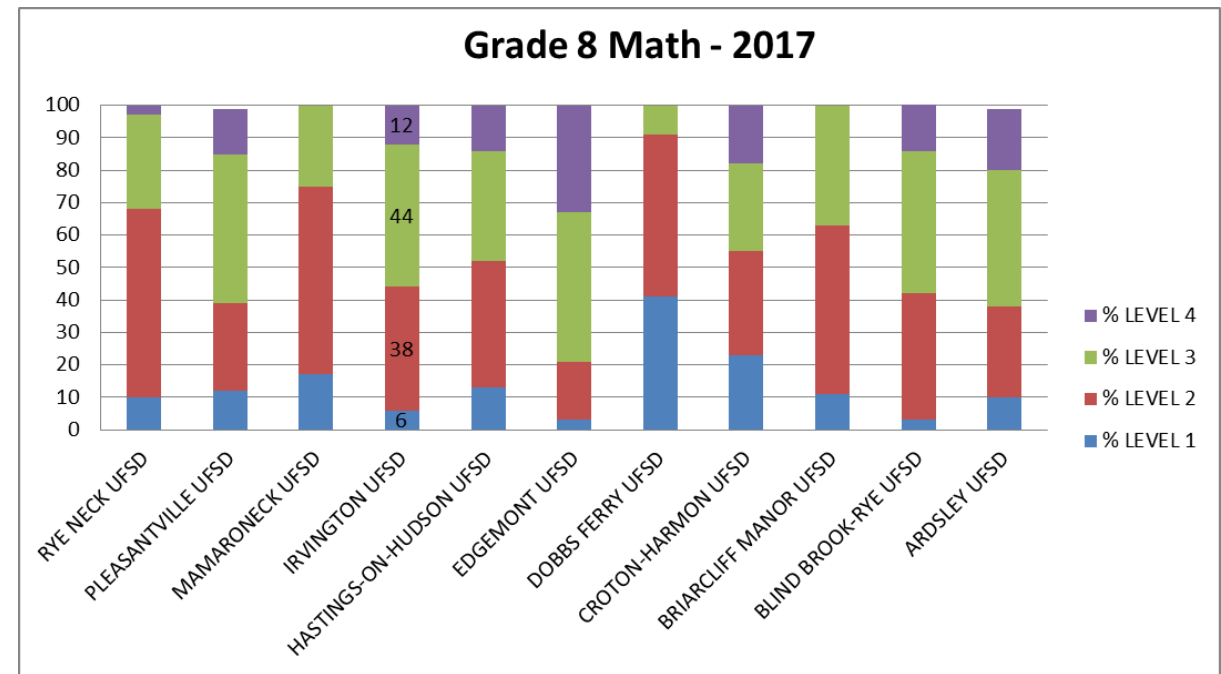
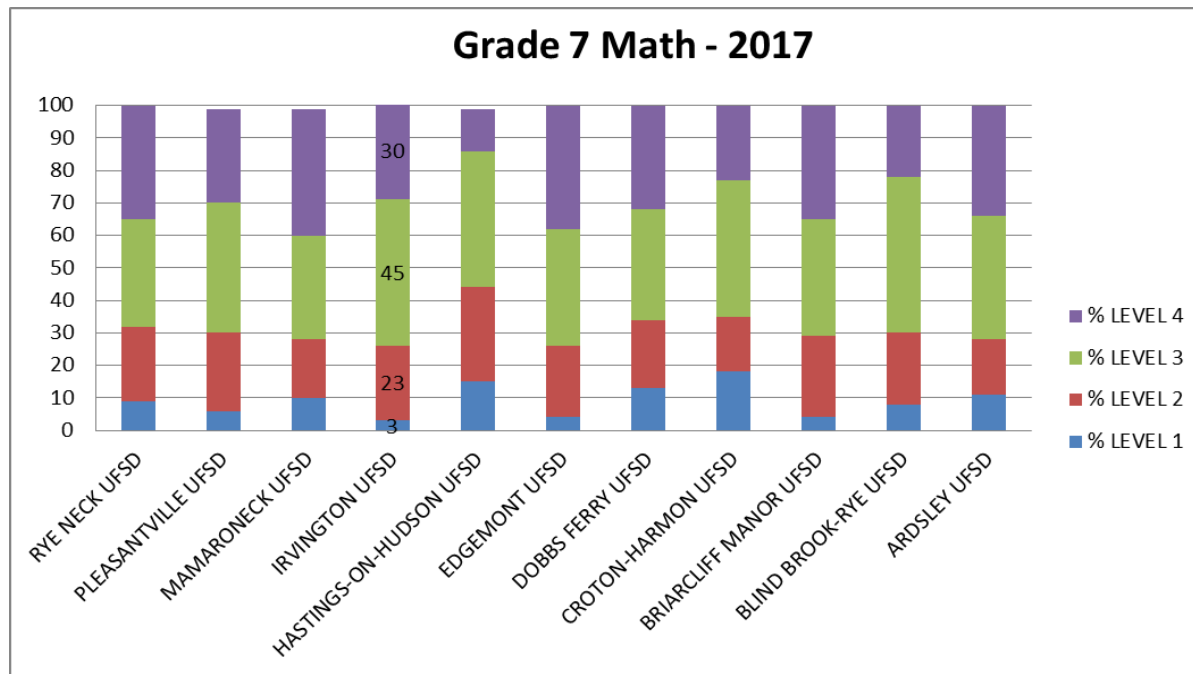


Grade 6 Math - 2017



2017 Math - Grades 7 & 8

Score Distribution vs Comparison Cohort of Westchester Schools

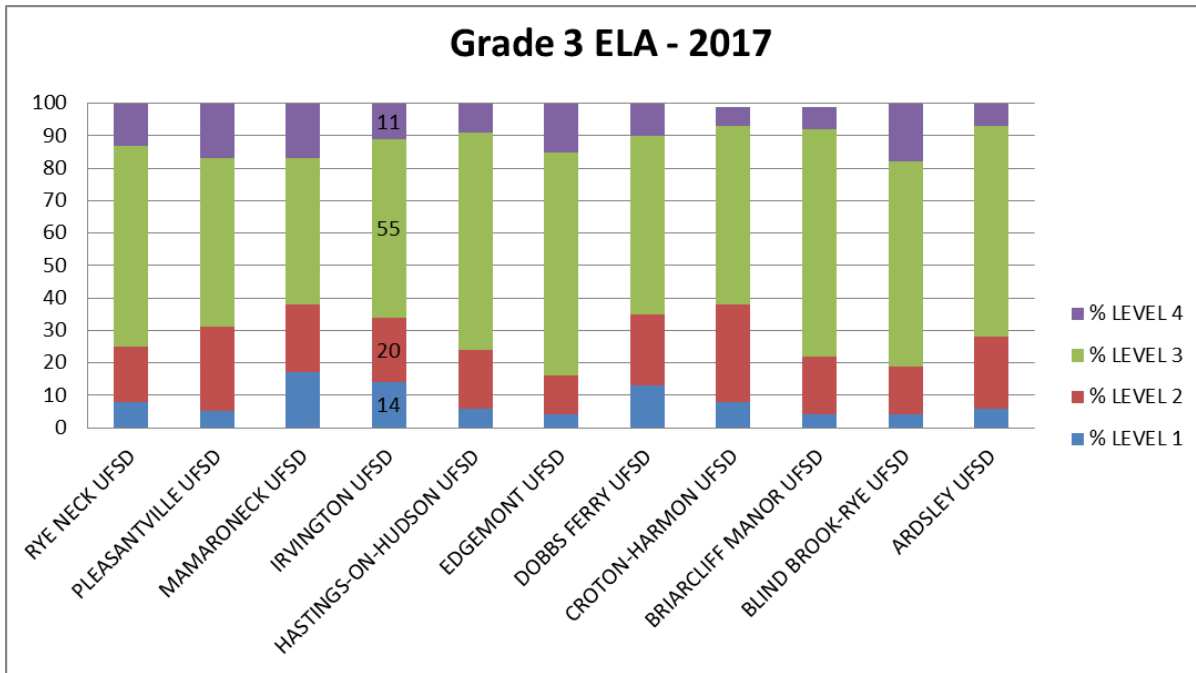


English Language Arts - Grade 3 - 8

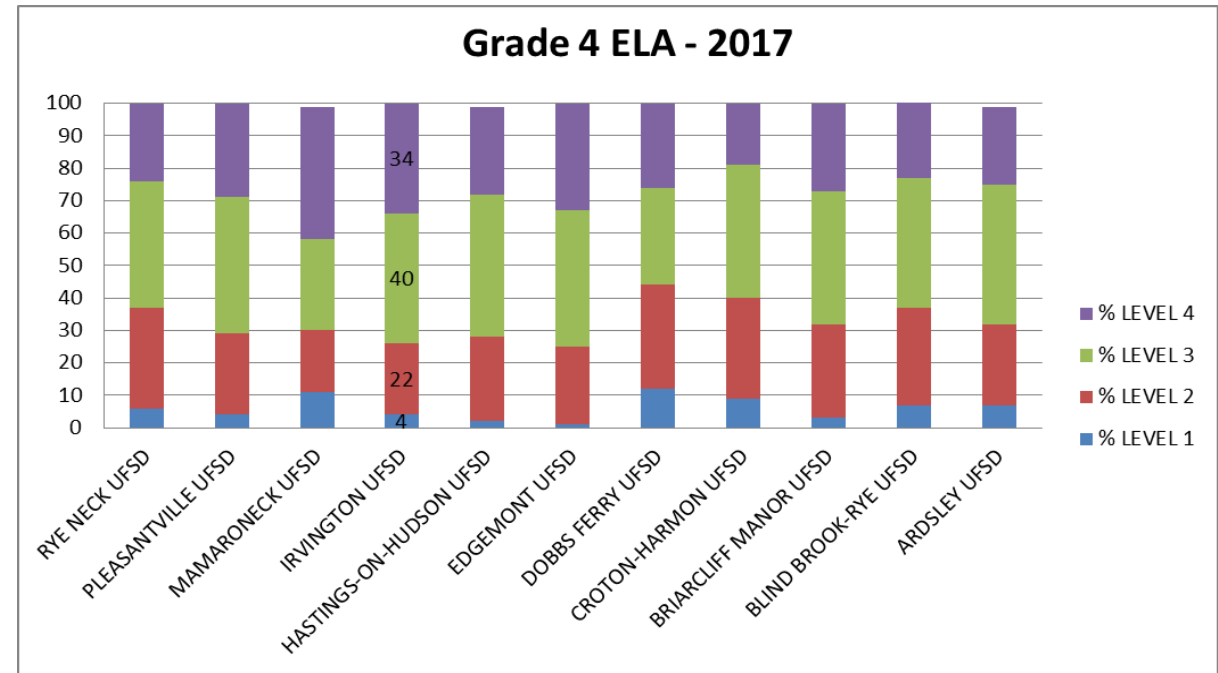
2017 ELA - Grades 3 & 4

Score Distribution vs Comparison Cohort of Westchester Schools

Grade 3 ELA - 2017

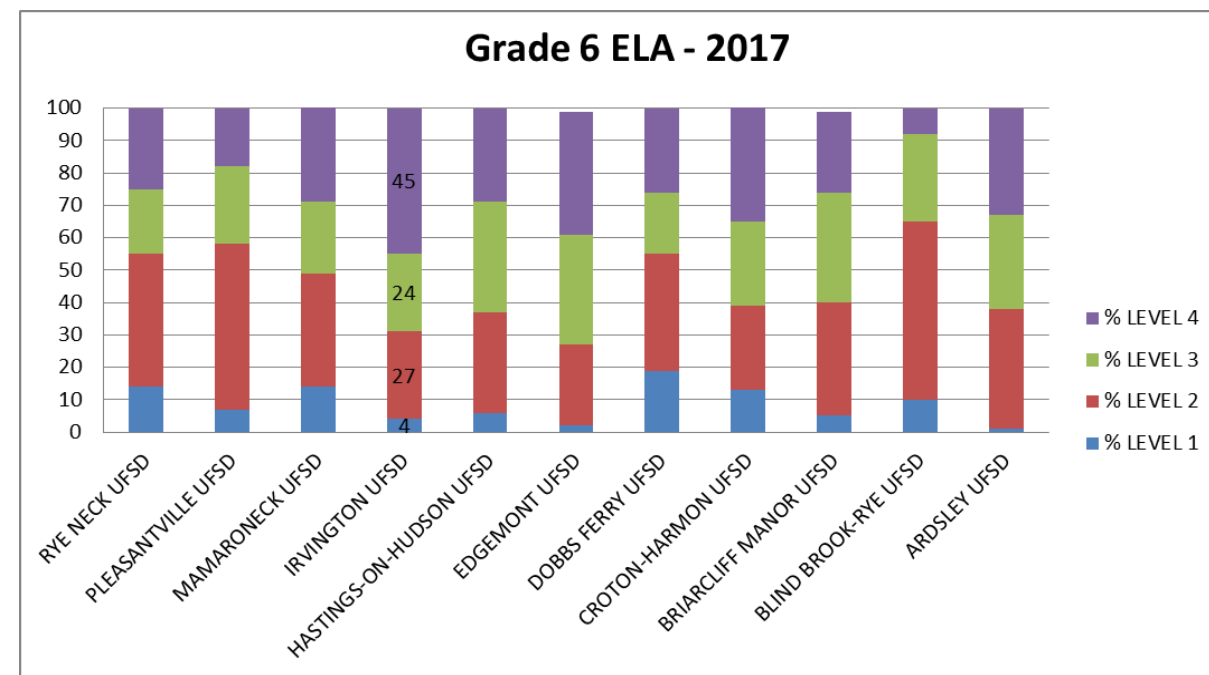
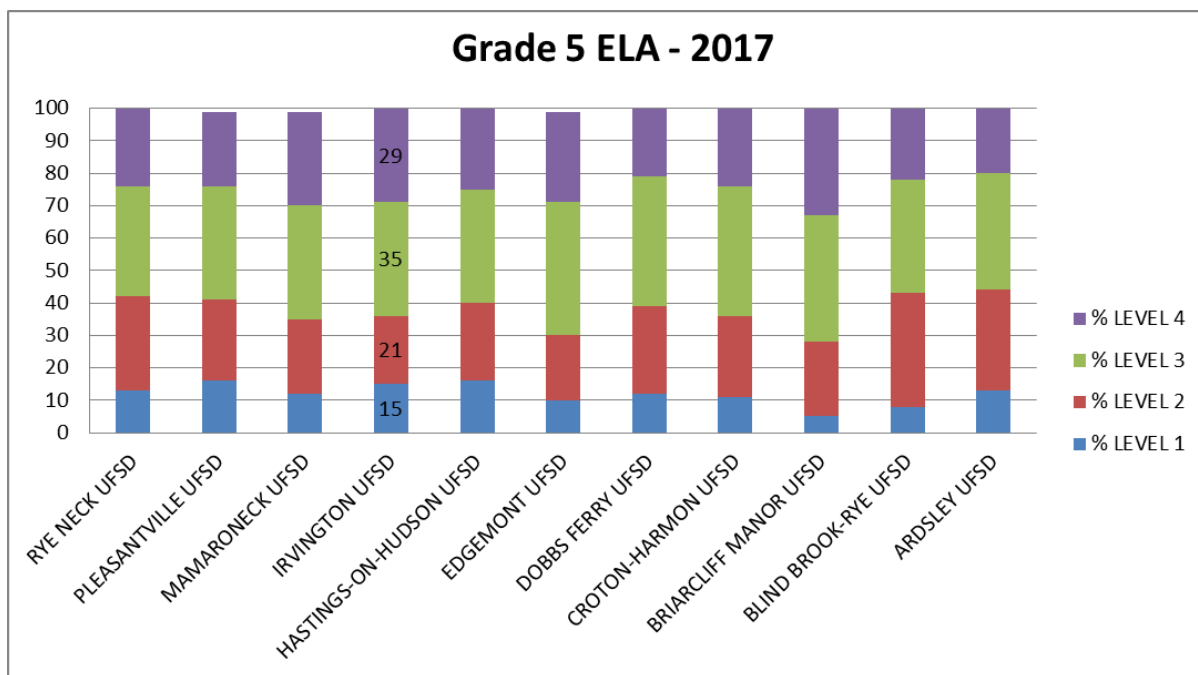


Grade 4 ELA - 2017



2017 ELA - Grades 5 & 6

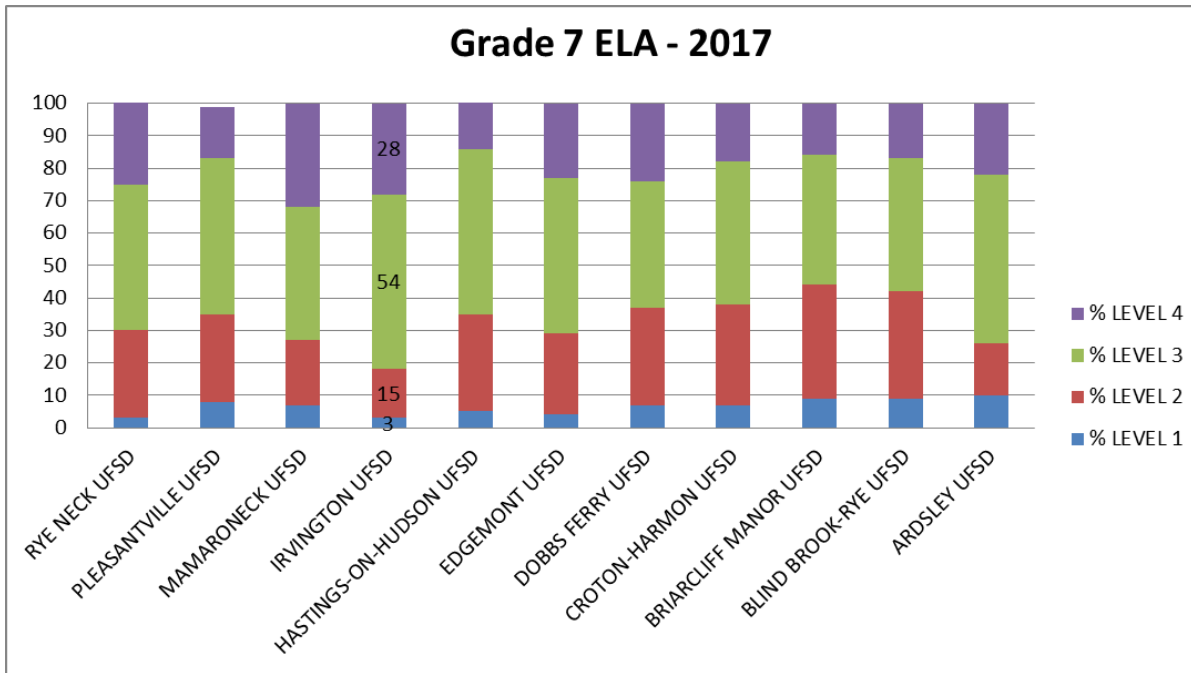
Score Distribution vs Comparison Cohort of Westchester Schools



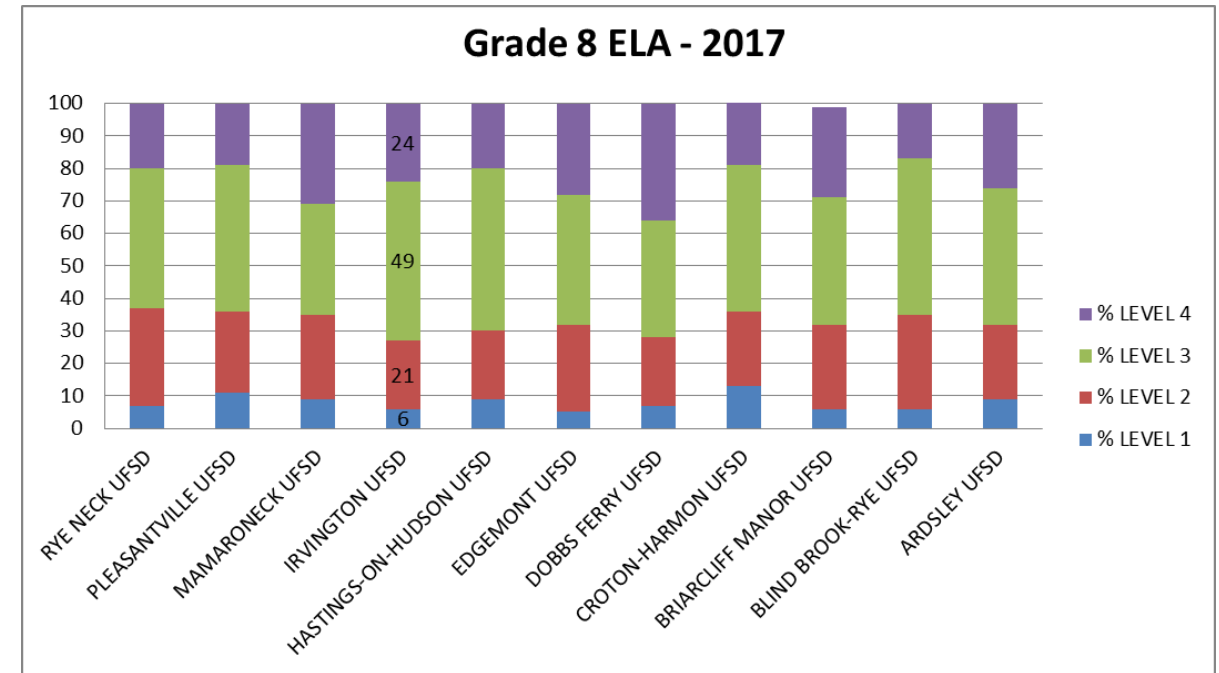
2017 ELA - Grades 7 & 8

Score Distribution vs Comparison Cohort of Westchester Schools

Grade 7 ELA - 2017



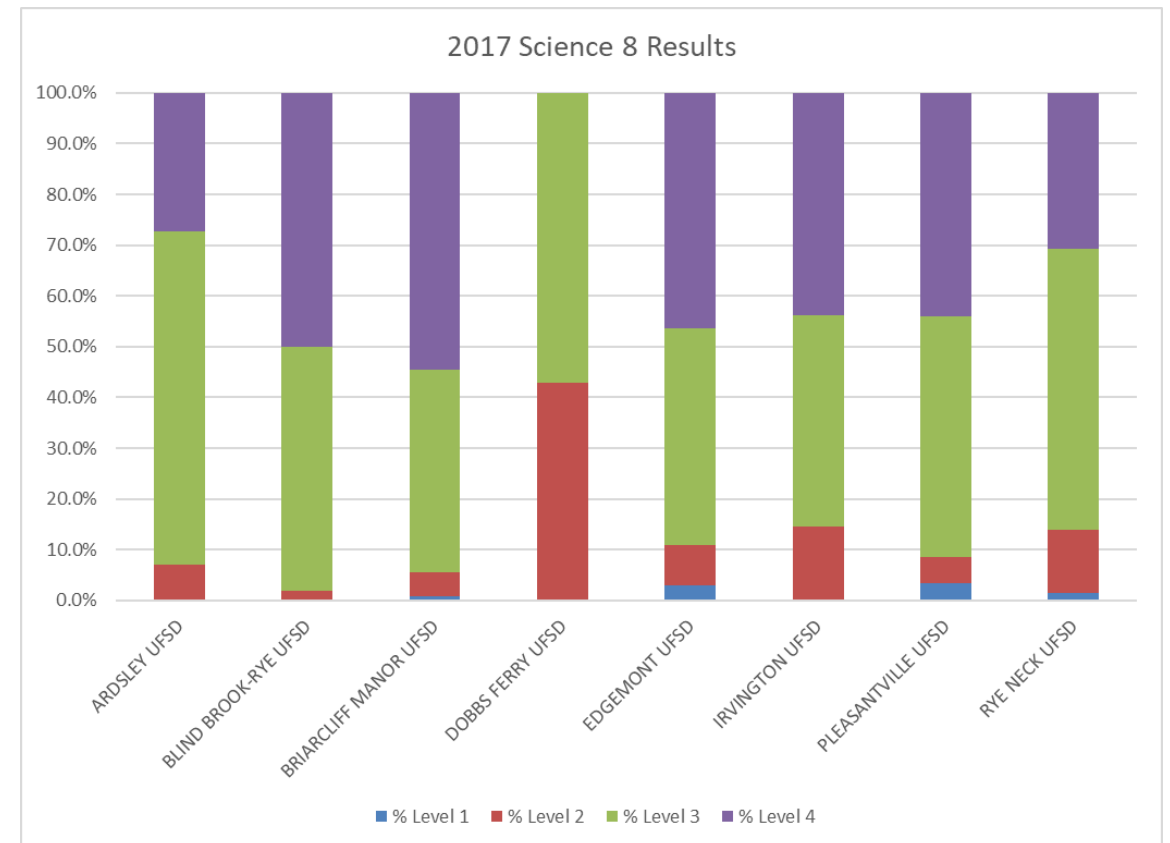
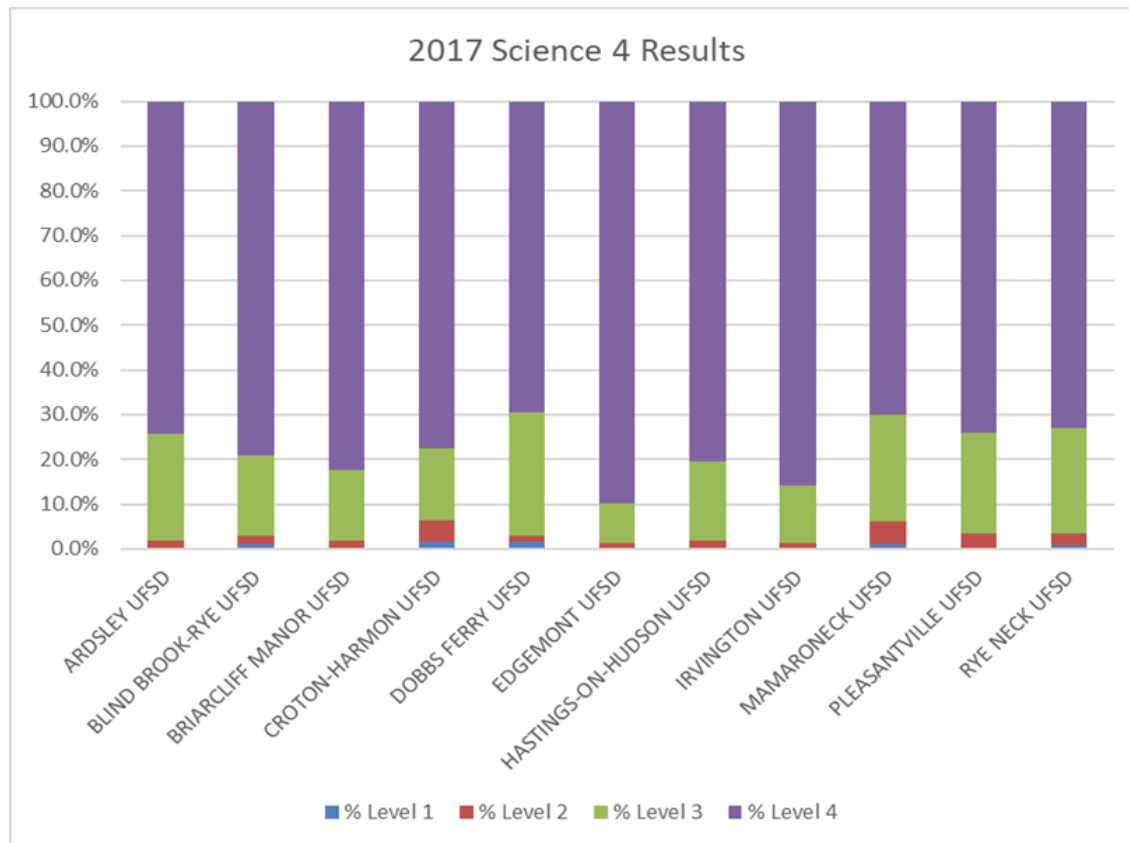
Grade 8 ELA - 2017



Science - Grades 4 & 8

2017 Science - Grades 4 & 8

Score Distribution vs Comparison Cohort of Westchester Schools



Executive Summary – Grade 3 - 8 Tests

- Longitudinal progress demonstrates consistent improvements in test achievement
- Use of RTL data supporting struggling learners
- Mean score average of MS ELA scores is the highest of our regional cohorts:
 - **Irvington** **328**
 - Edgemont 326
 - Ardsley 323
 - Hastings 322
 - Mamaroneck 322
- Expanded use of data may introduce additional insights into student needs and curricular enhancements

Regents Exams

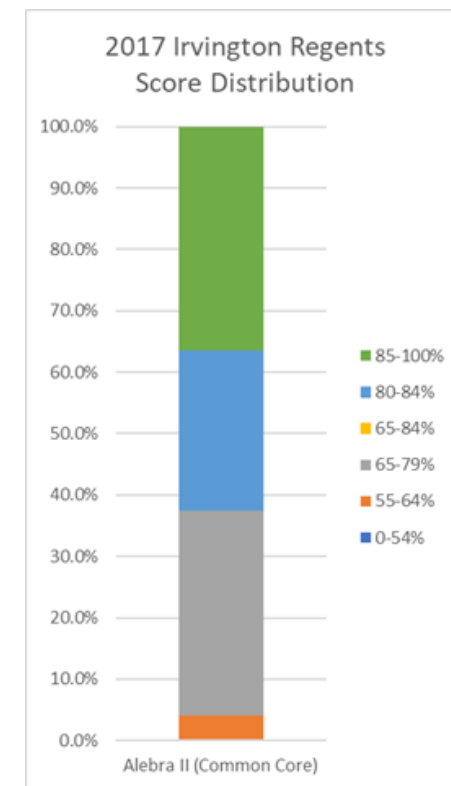
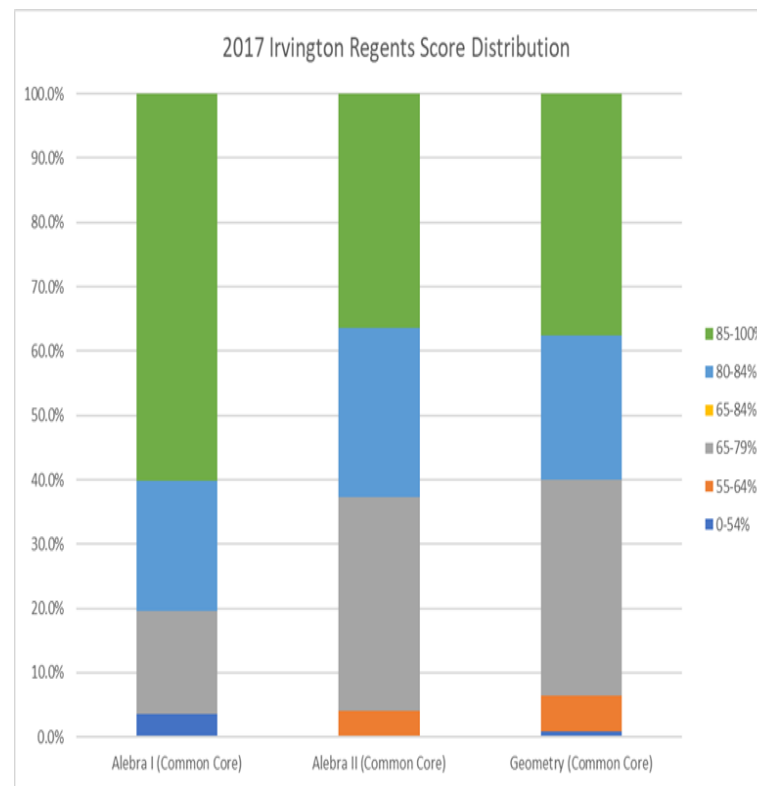
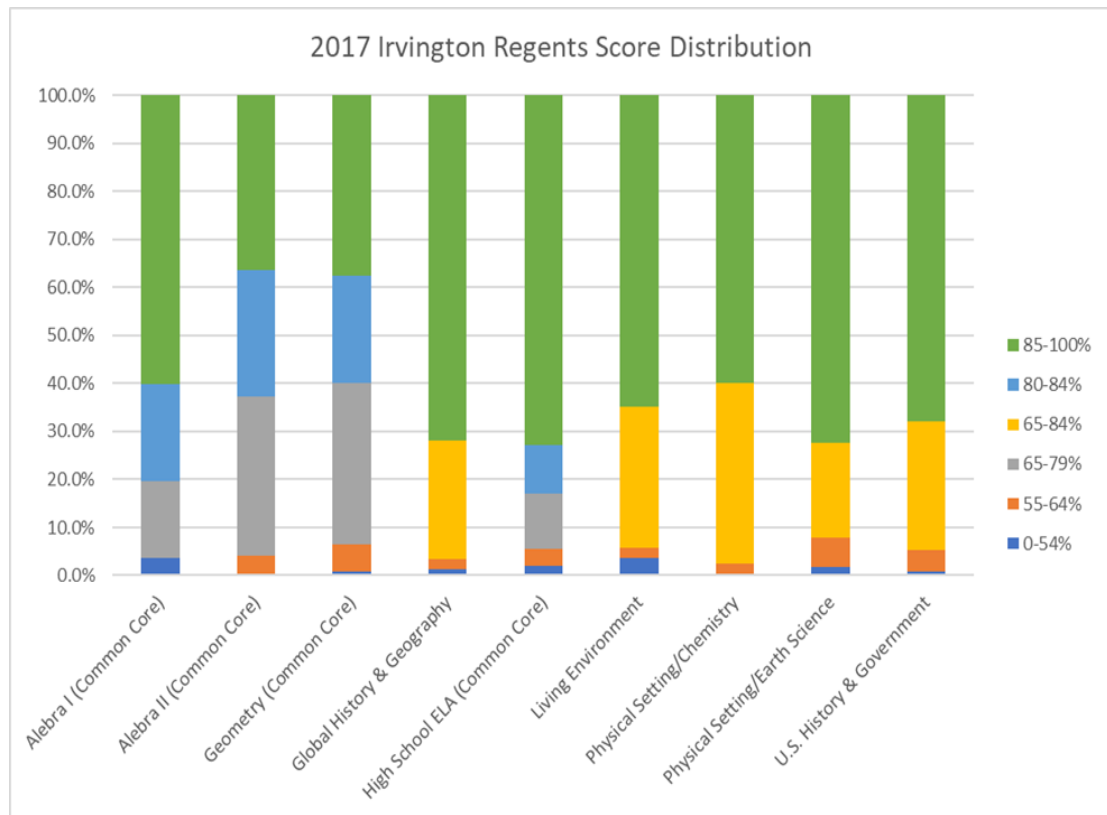
Executive Summary – Regents Exams

Regents Diploma	Advanced Regents Diploma
Examination Requirements	
<p>A student must achieve a score of 65 or higher on five Regents exams:</p> <ul style="list-style-type: none"> • English Language Arts (ELA) • Any mathematics exam (Algebra I, Geometry, <i>or</i> Algebra II/Trigonometry) • Any social studies exam (Global History and Geography <i>or</i> U.S. History and Government) • Any science exam (Living Environment, Chemistry, Earth Science, <i>or</i> Physics) • Any additional Regents exam or assessment approved by the State for this purpose 	<p>A student must achieve a score of 65 or higher on nine exams:</p> <ul style="list-style-type: none"> • English Language Arts (ELA) • Three mathematics exams (Algebra I, Geometry, <i>and</i> Algebra II/Trigonometry) • Any social studies exam (Global History and Geography <i>or</i> U.S. History and Government) • Two science exams (Living Environment <i>and</i> one of the following: Chemistry, Earth Science, <i>or</i> Physics) • Any additional Regents exam or assessment approved by the State for this purpose • Any NYC Languages Other Than English(LOTE) exam

Irvington High School Regents Diplomas Awarded

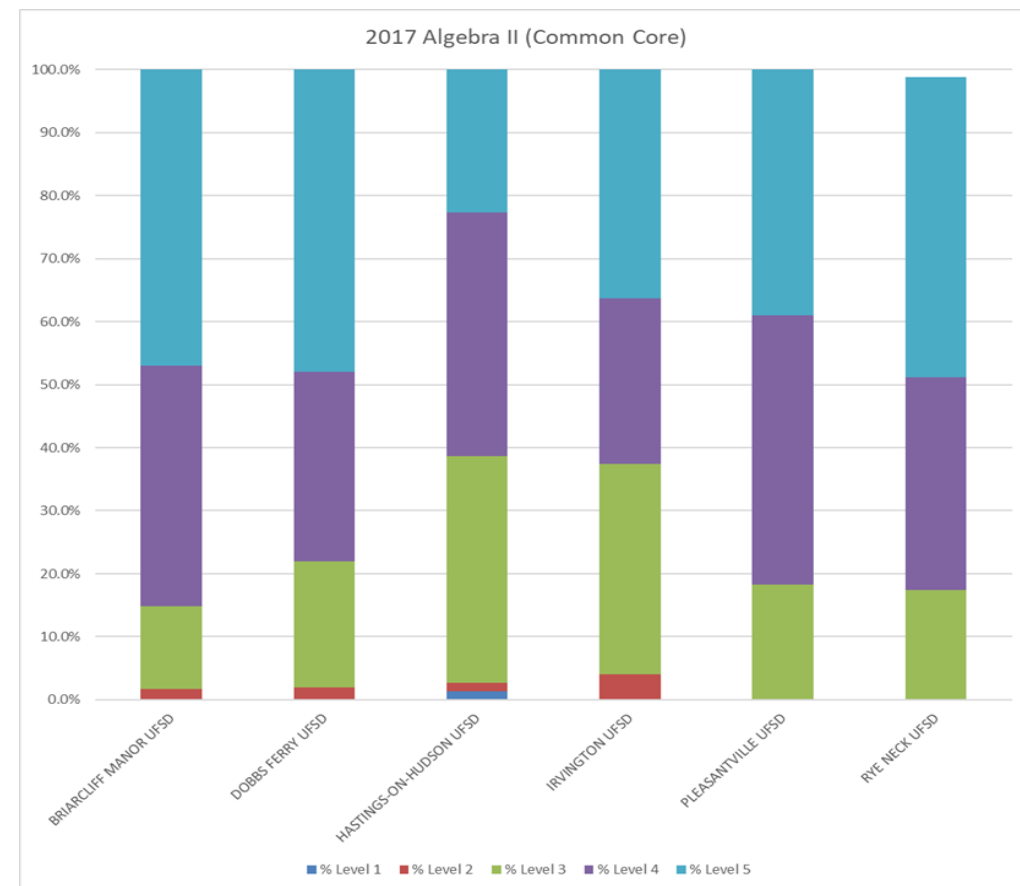
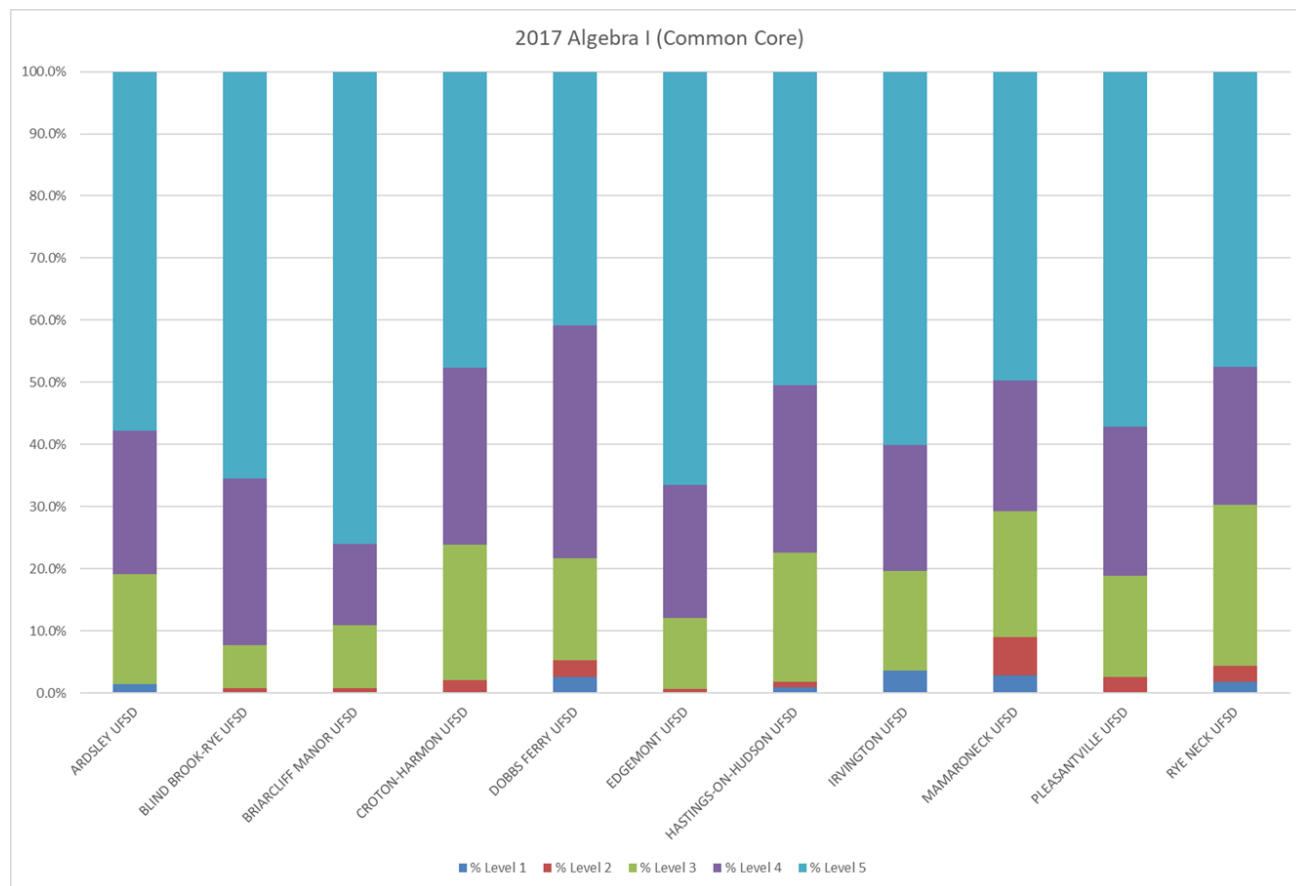
Year	Students	Graduates	Regents Diplomas
2003	94	91	82%
2004	124	123	95%
2005	138	134	97%
2006	122	119	96%
2007	141	138	92%
2008	157	145	93%
2009	172	169	99%
2010	149	146	95%
2011	155	151	96%
2012	142	142	96%
2013	150	146	97%
2014	148	146	95%
2015	134	130	95%
2016	150	146	97%
2017	130	128	95%

2017 Irvington Regents Results



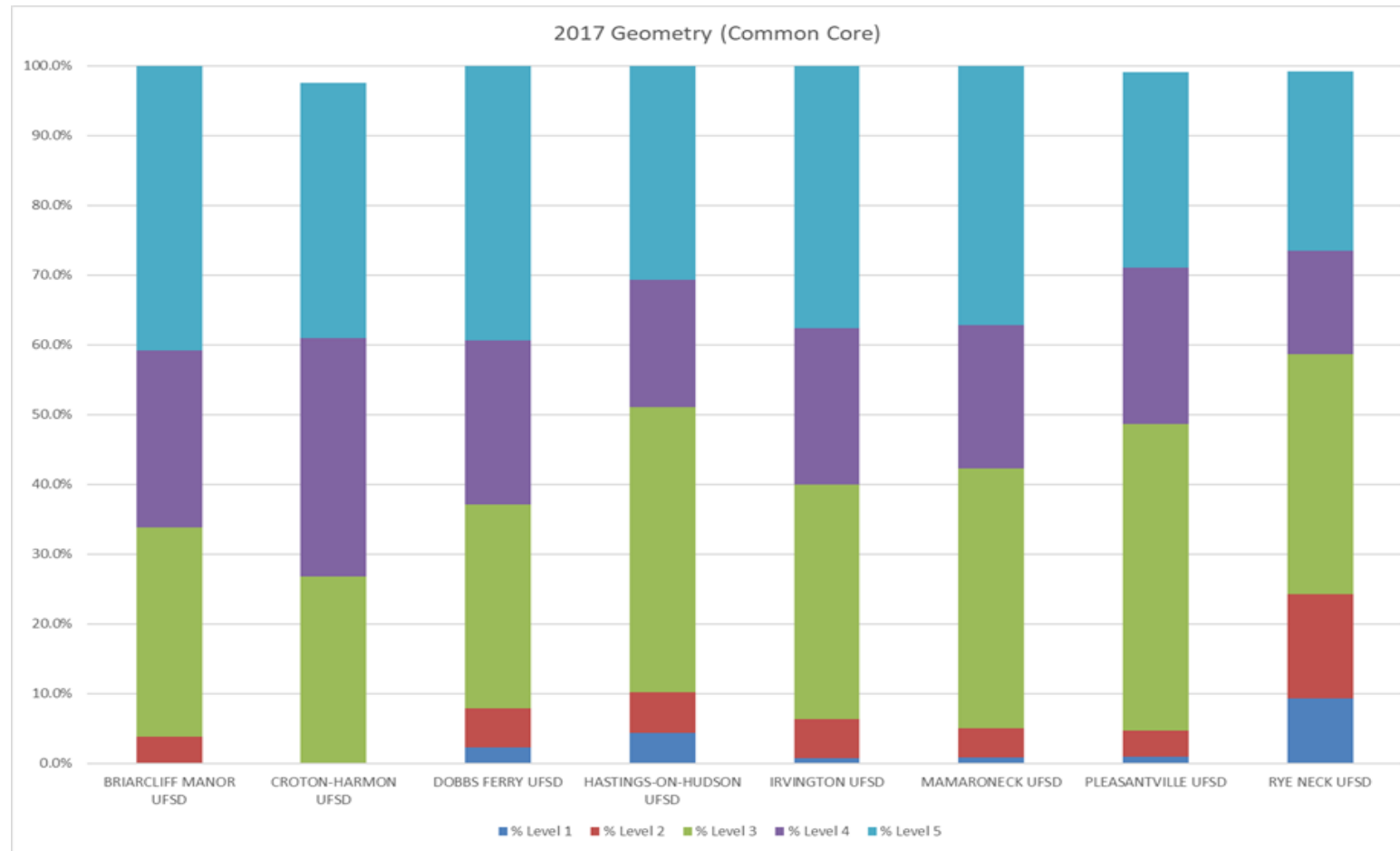
2017 Common Core Algebra

Score Distribution vs Comparison Cohort of Westchester Schools



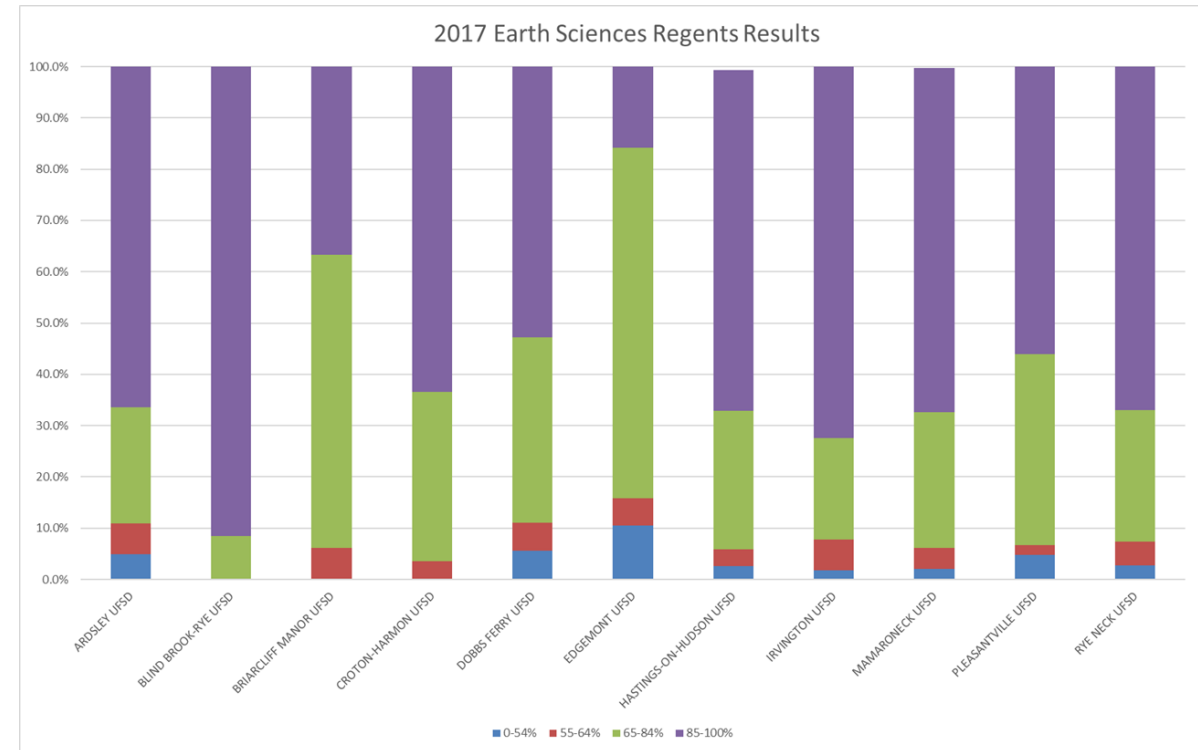
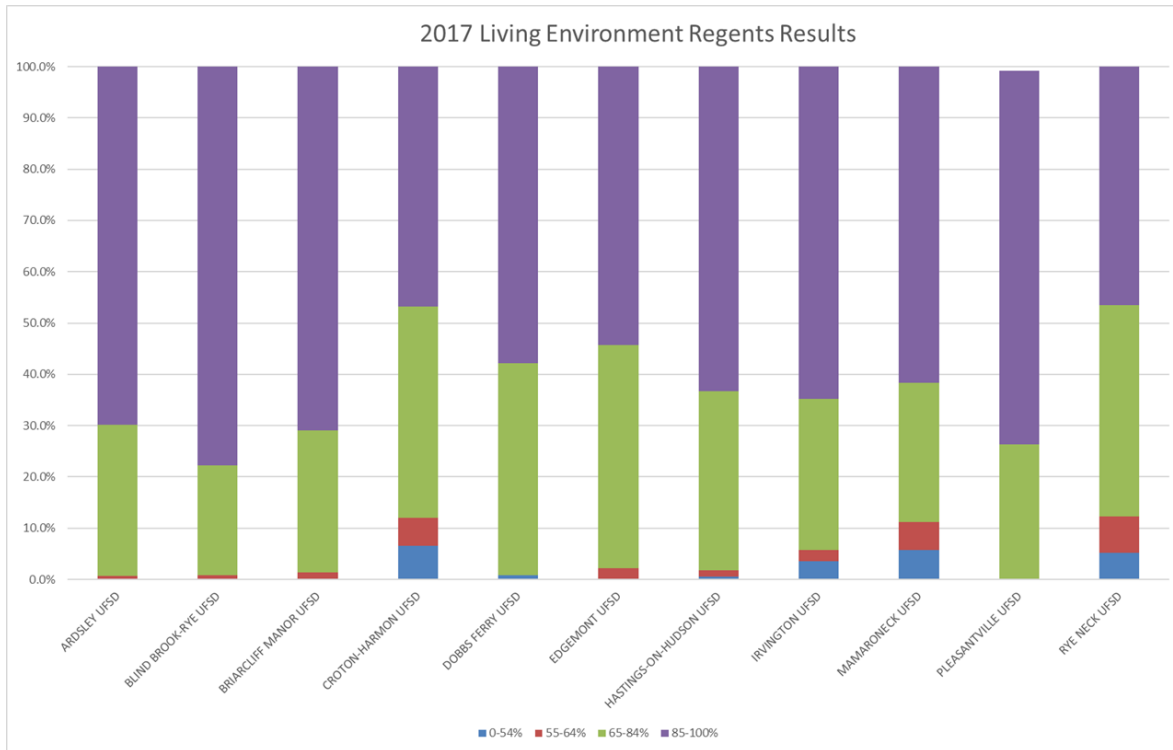
2017 Common Core Geometry

Score Distribution vs Comparison Cohort of Westchester Schools



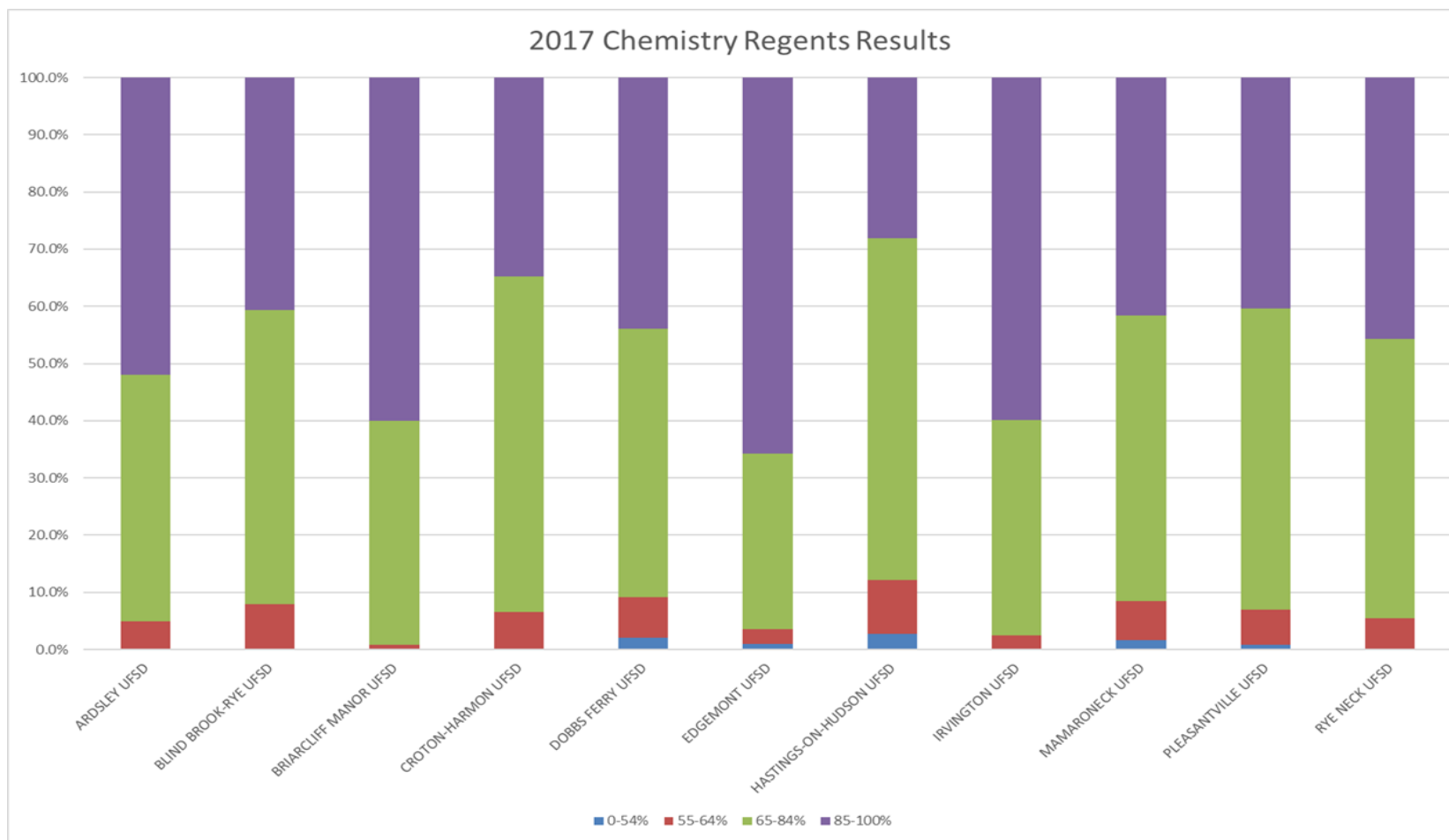
2017 Science Regents

Score Distribution vs Comparison Cohort of Westchester Schools



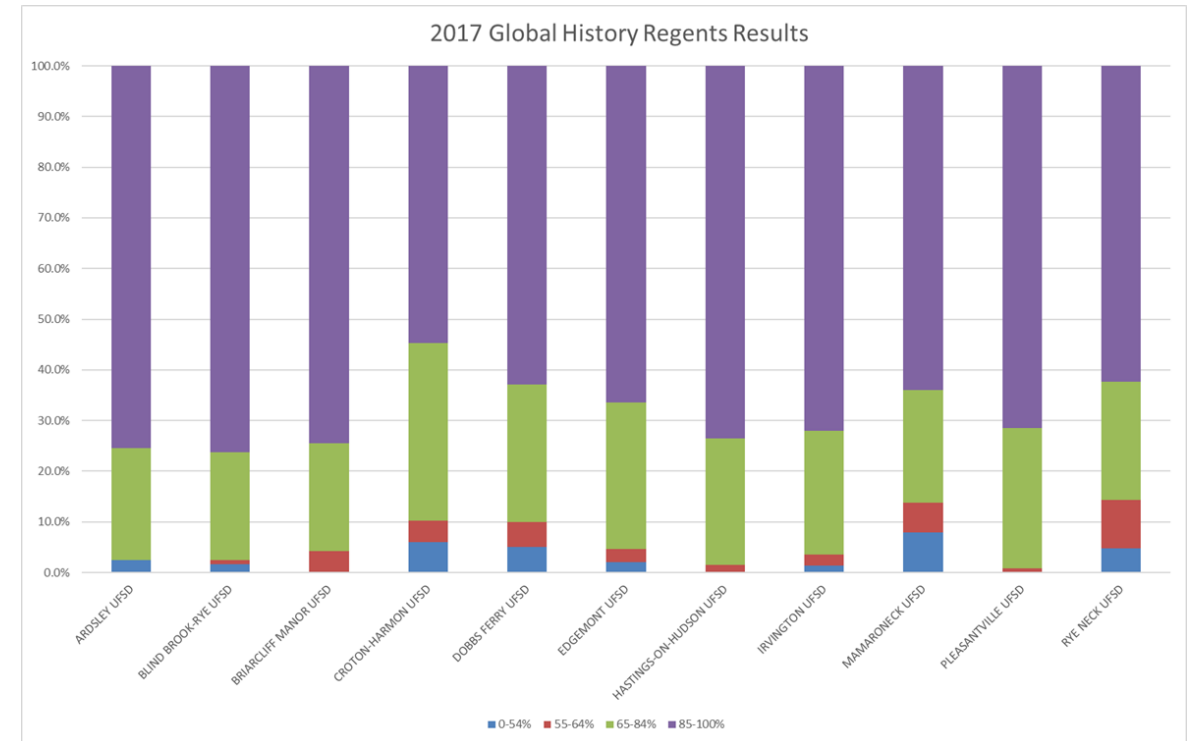
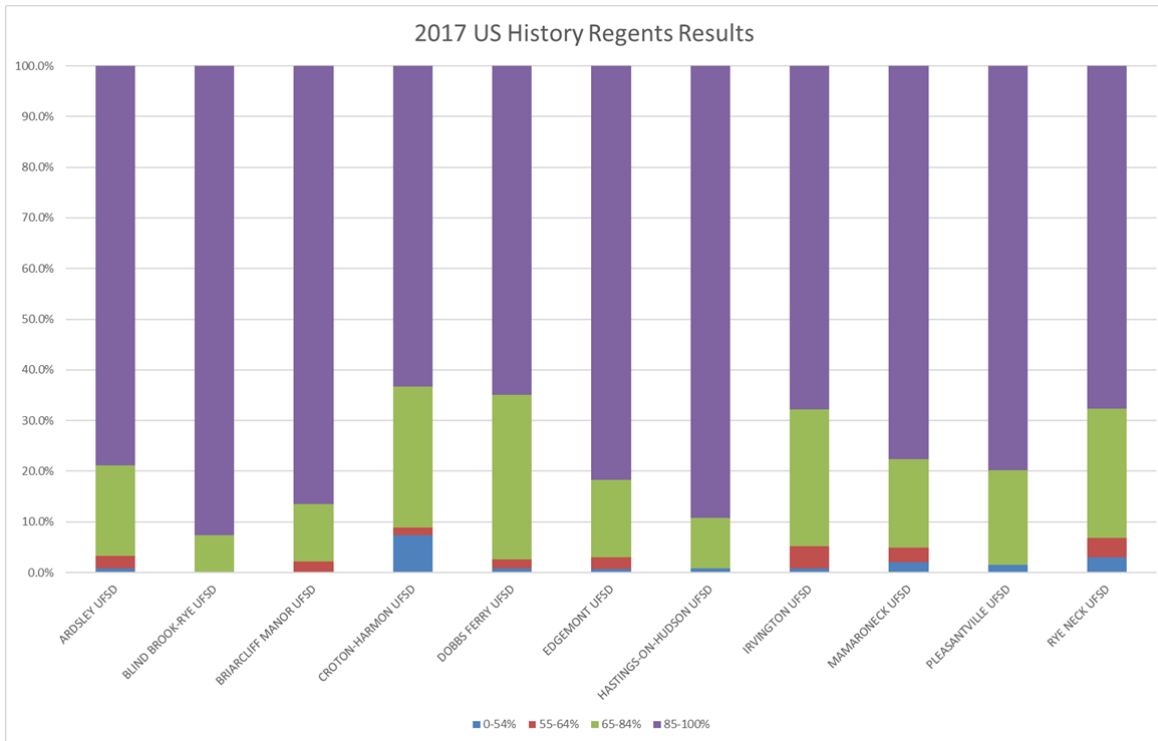
2017 Chemistry Regents

Score Distribution vs Comparison Cohort of Westchester Schools



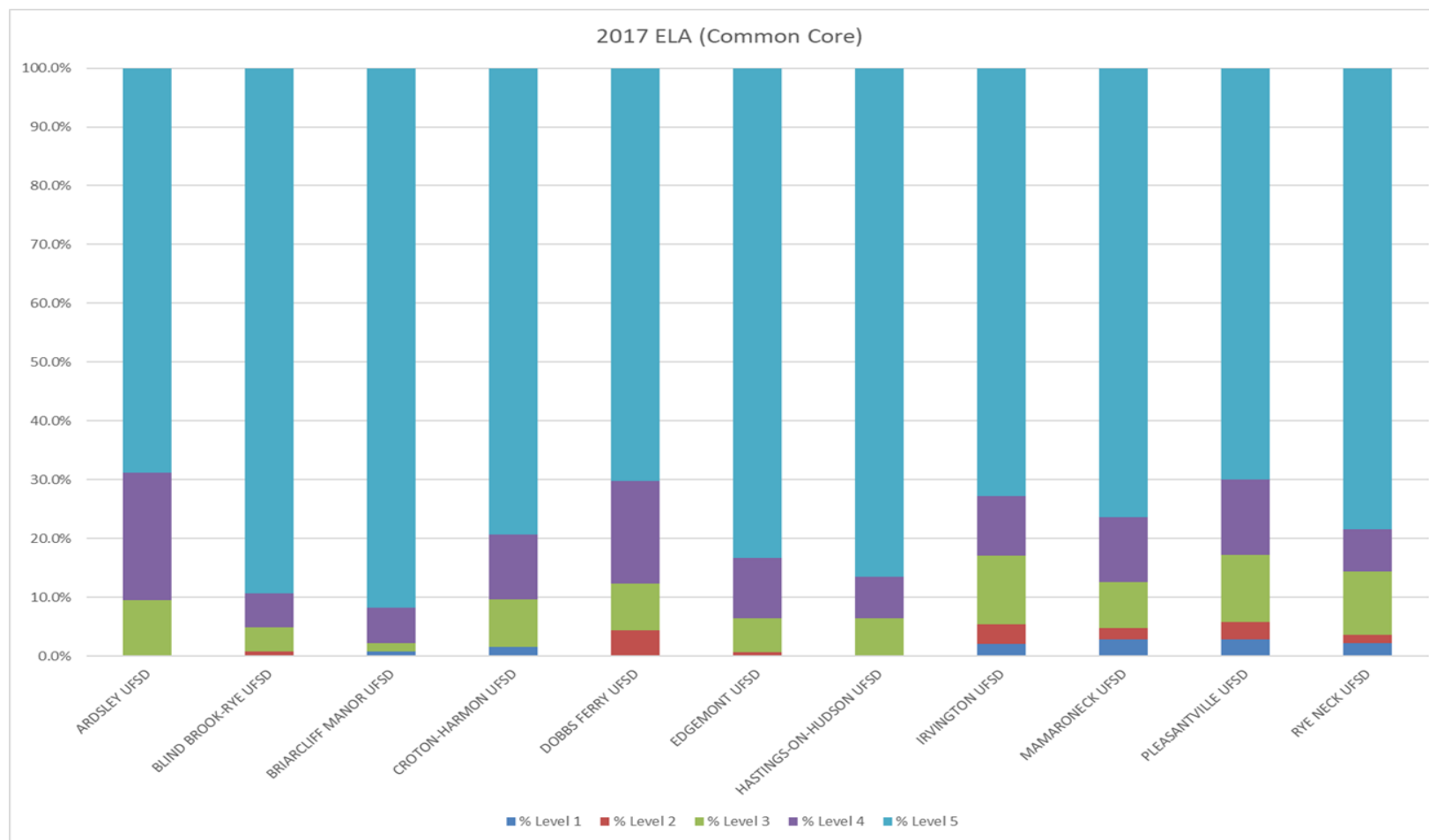
2017 History Regents

Score Distribution vs Comparison Cohort of Westchester Schools



2017 Common Core ELA Comparison

Score Distribution vs Comparison Cohort of Westchester Schools



Executive Summary – Regents Exams

- Consideration of the value/need to continue to pursue the advanced Regents Diploma
 - Few colleges consider aside from NYS public institutions
- Cohort results vary, for all school districts, due to numerous factors
- Cohort size and course selection of electives impacts participation
- Departments can utilize data to inform instruction and reflect on past experiences

Advanced Placement (AP) Exams

Executive Summary - Advanced Placement

- IHS maintains open-enrollment for AP courses which increased access for all students
- The addition of numerous electives has impacted student enrollment in AP courses
- Overall, Irvington students performed well, with 78% passing (3+) at least one exam
- Of the 527 taking the exams in 2017, 18% resulted in a 5, and 26% resulted in a 4 and 28% resulted in a 3, for overall passing of 72%

Number of AP Courses Offered

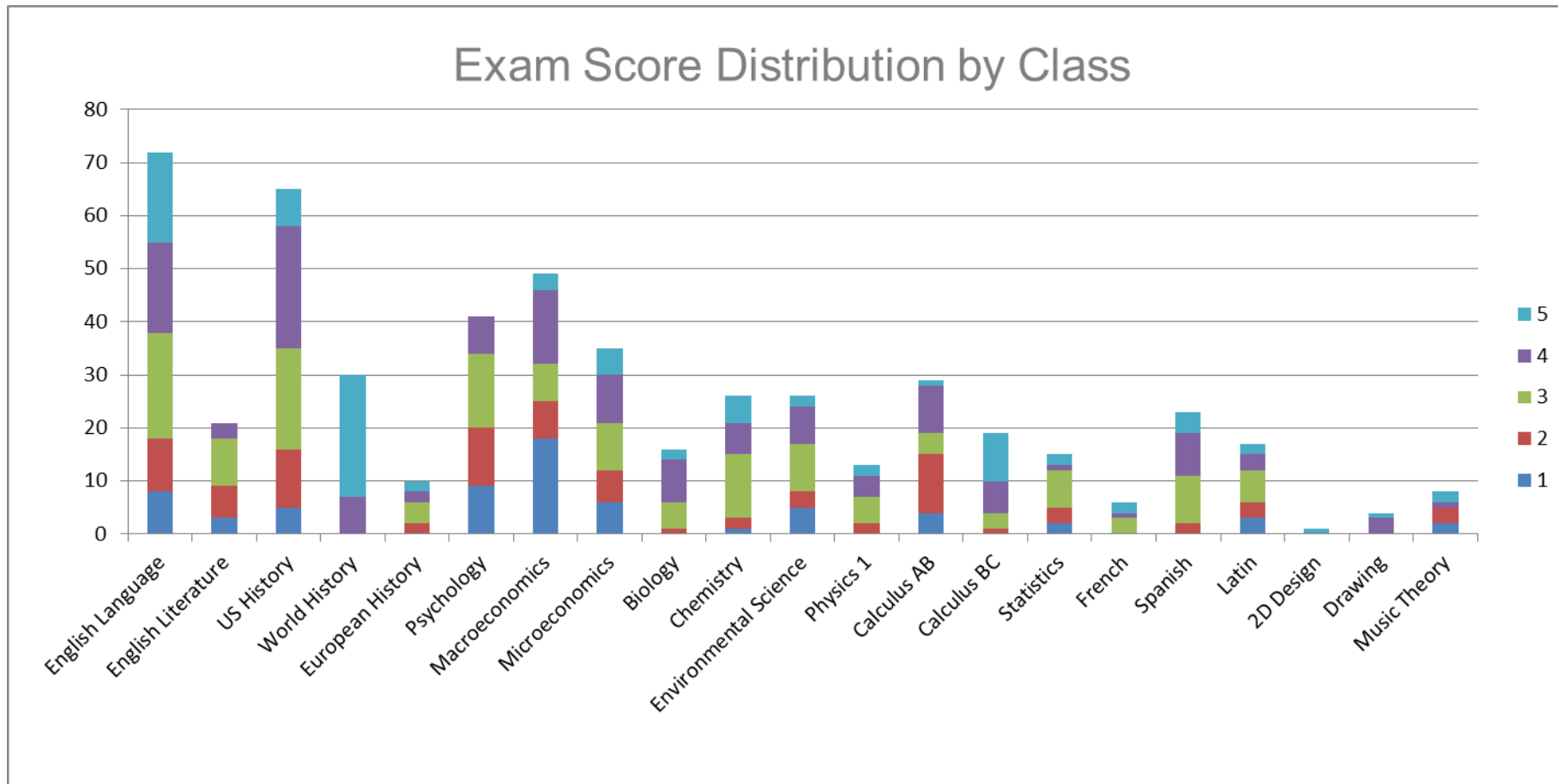
Year	# of Courses
2003	15
2004	15
2005	18
2006	17
2007	19
2008	18
2009	17
2010	17
2011	17
2012	19
2013	19
2014	17
2015	18
2016	20
2017	21

AP Exam – Participation and Passing Rates

Year	Enrollment	# Taking	# Passing
2003	480	231	160
2004	530	394	296
2005	550	416	291
2006	597	384	272
2007	600	410	266
2008	608	457	289
2009	611	536	329
2010	607	524	302
2011	612	505	344
2012	608	554	381
2013	594	589	368
2014	559	559	367
2015	530	525	405
2016	569	558	383
2017	540	527	377

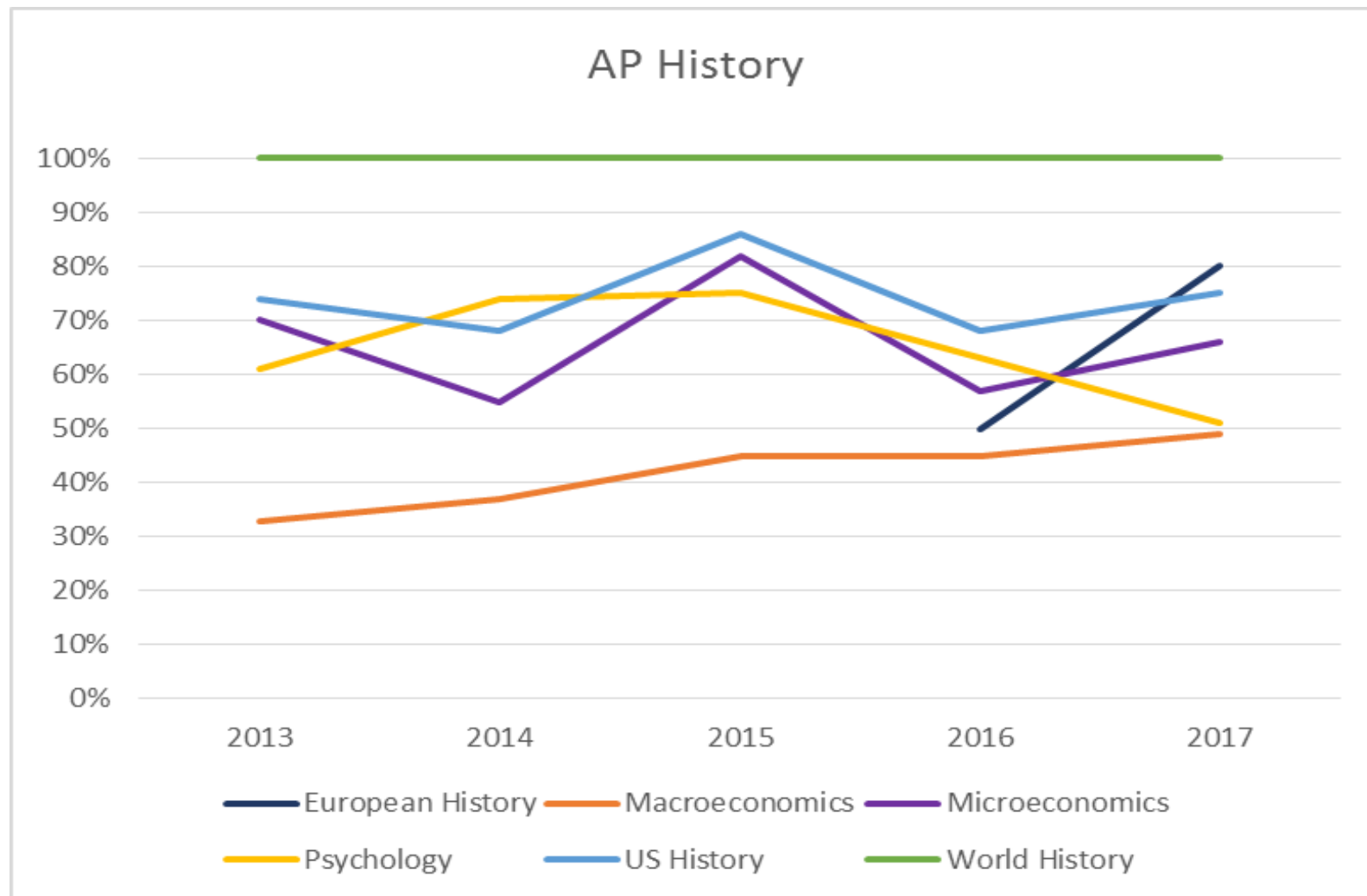
2017 AP Exam Scores

Enrollment in AP classes varies significantly by program, which impacts score distribution. We continue to review programs to identify areas for improvement as well as to find new course opportunities.



Note: AP Physics 1 was offered for the first time in the 2016-17 school year.
 AP Computer Science is offered in alternating years - it was offered in the 2015-16 school year and will be offered again during the 2017-18 school year.
 AP Music Theory is offered in alternating years – it was offered in the 2016-17 school year and will not be offered again until the 2018-19 school year.

AP History



Average number of students taking exam annually:

World: 25

European: 14

US: 81

Macro: 56

Micro: 28

Psychology: 34

**National Passing
% 2017**

World: 55%

European: 56%

US: 51%

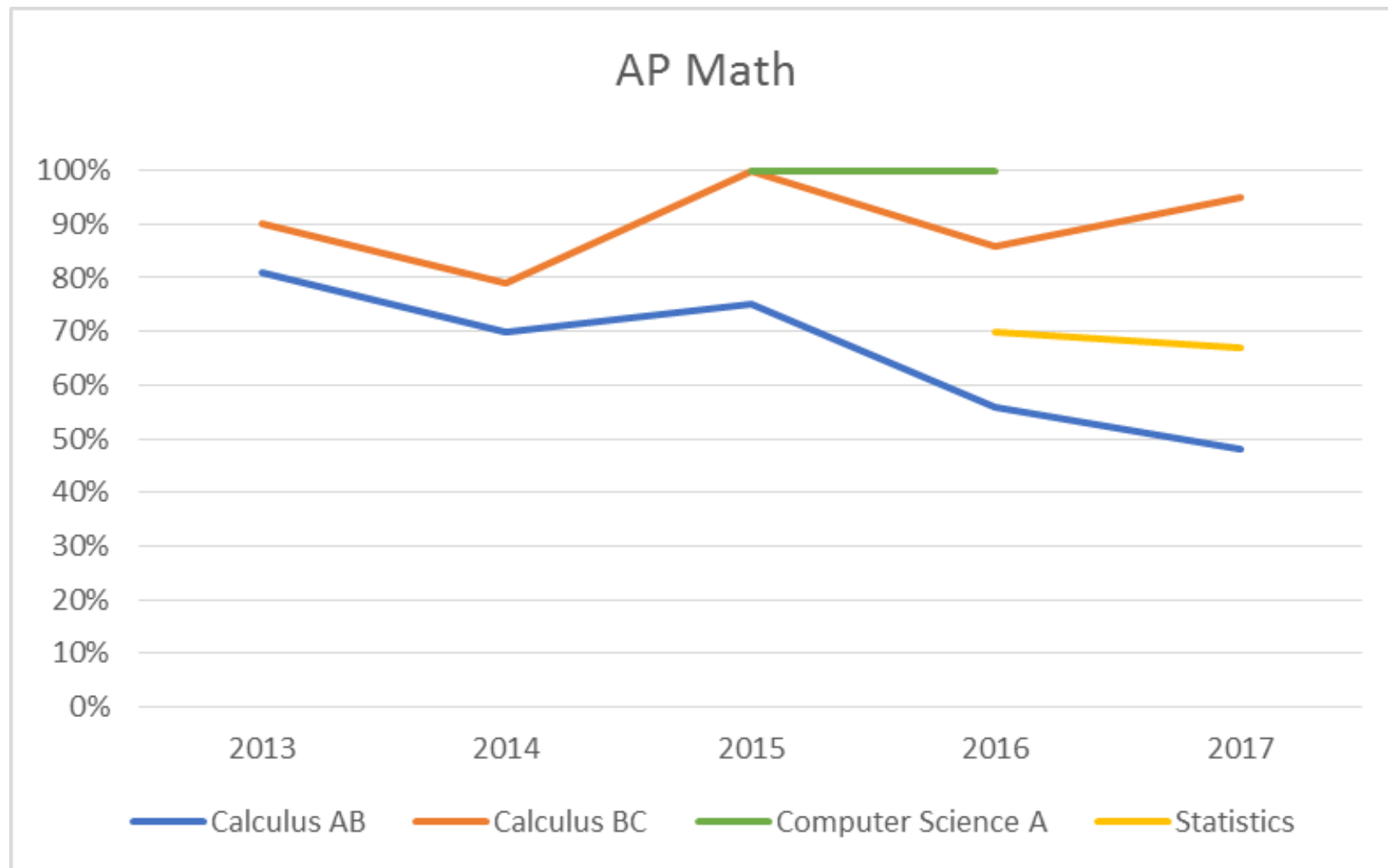
Macro: 58%

Micro: 70%

Psych: 64%

Red box indicates performance below National average

AP Math



Average number of students taking exam annually:
 Calc AB: 23
 Calc BC: 21
 Statistics: 13
 Comp Sci: (not offered in 2017)

**National Passing
% 2017**

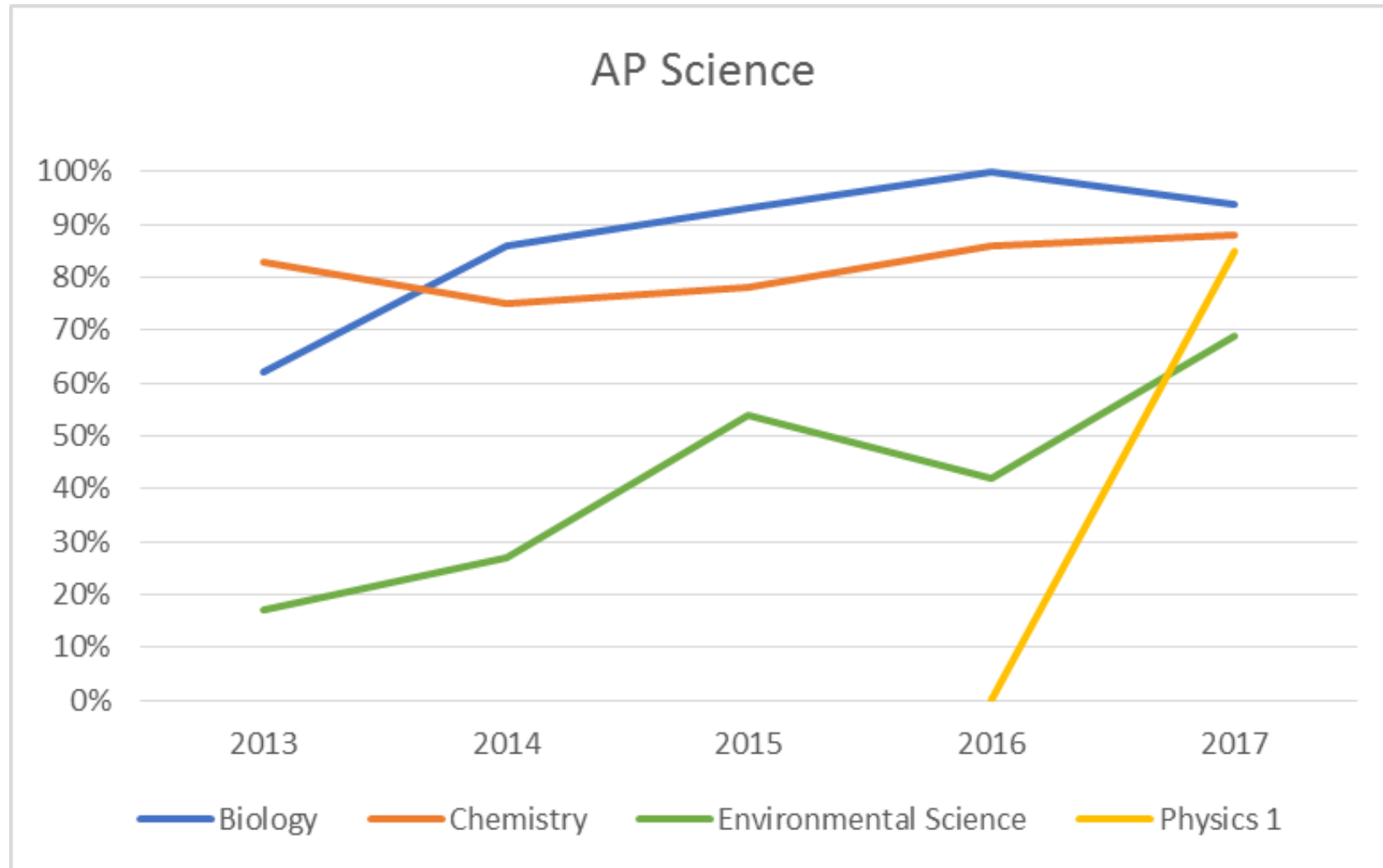
Calc AB: 58%

Calc BC: 81%

Stat: 54%

Red box indicates performance below National average

AP Science



Average number of students taking exam annually:

Biology: 20

Chemistry: 32

Environmental: 40

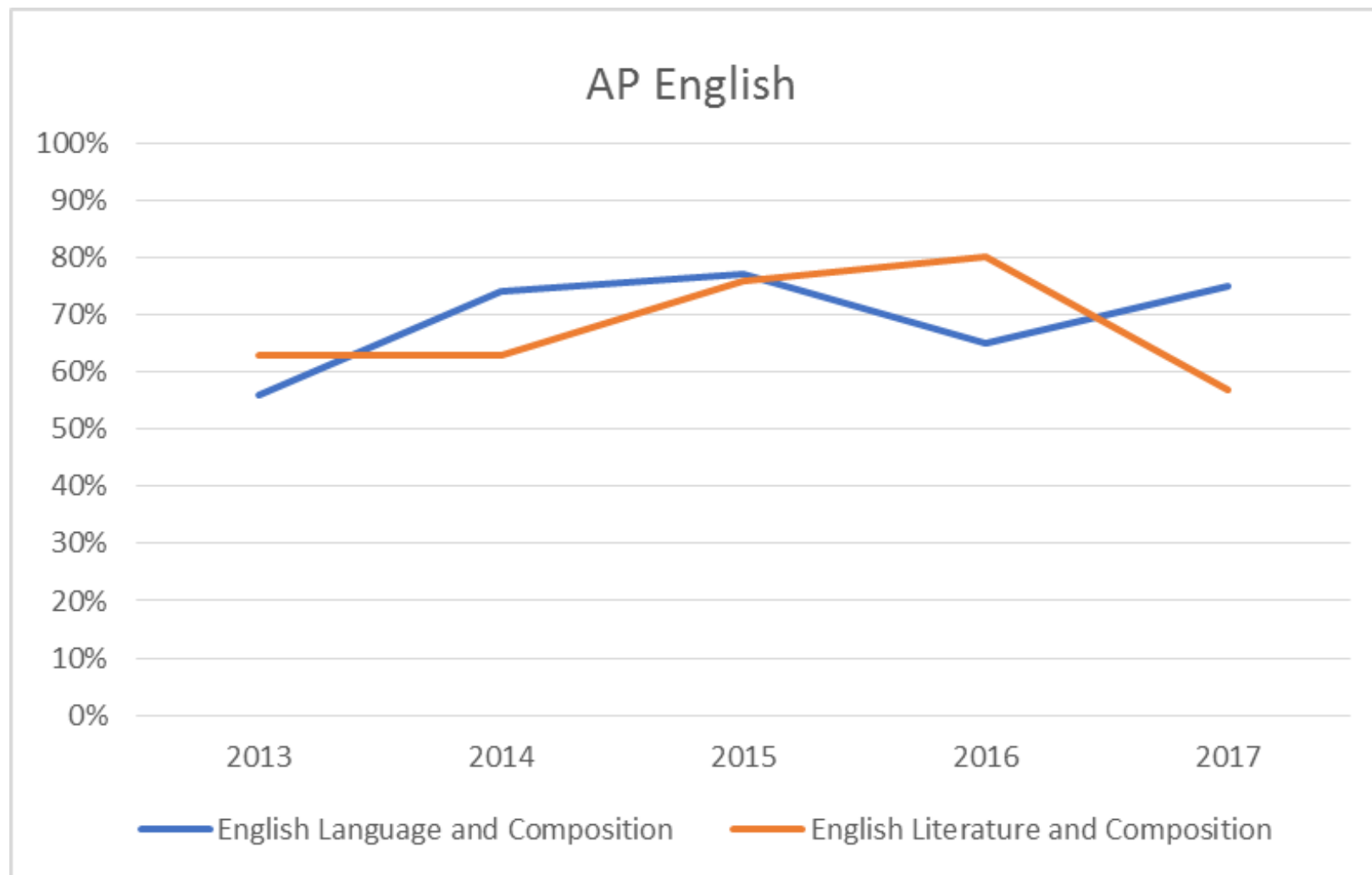
**National Passing
% 2017**

Bio: 64%

Envir: 49%

Chem: 53%

AP English



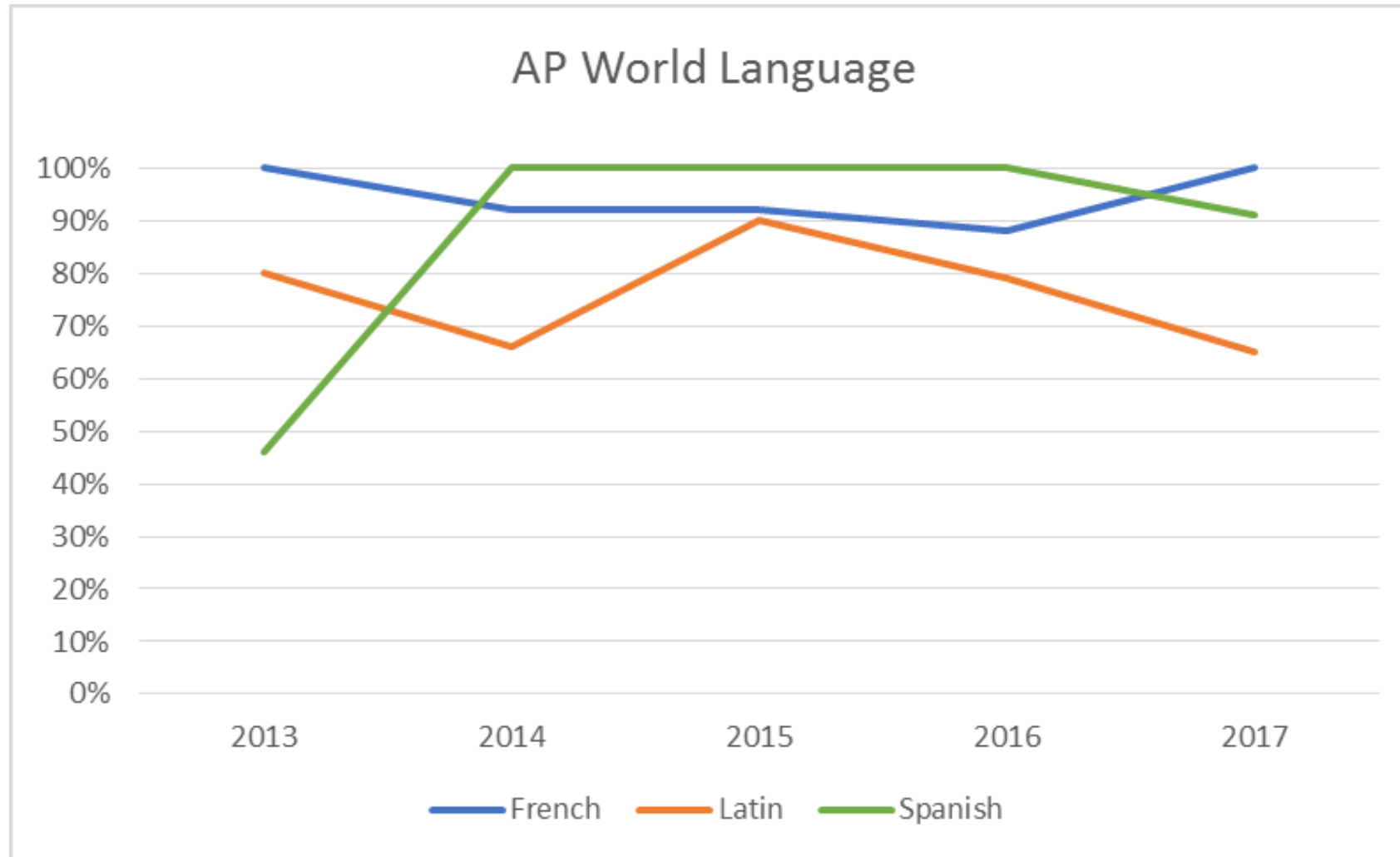
Average number of students
taking exam annually:
 Language: 60
 Literature: 57

**National Passing
% 2017**

Lang: 55%

Lit: 53%

AP World Language



Average number of students taking exam annually:

French: 10

Spanish: 13

Latin: 16

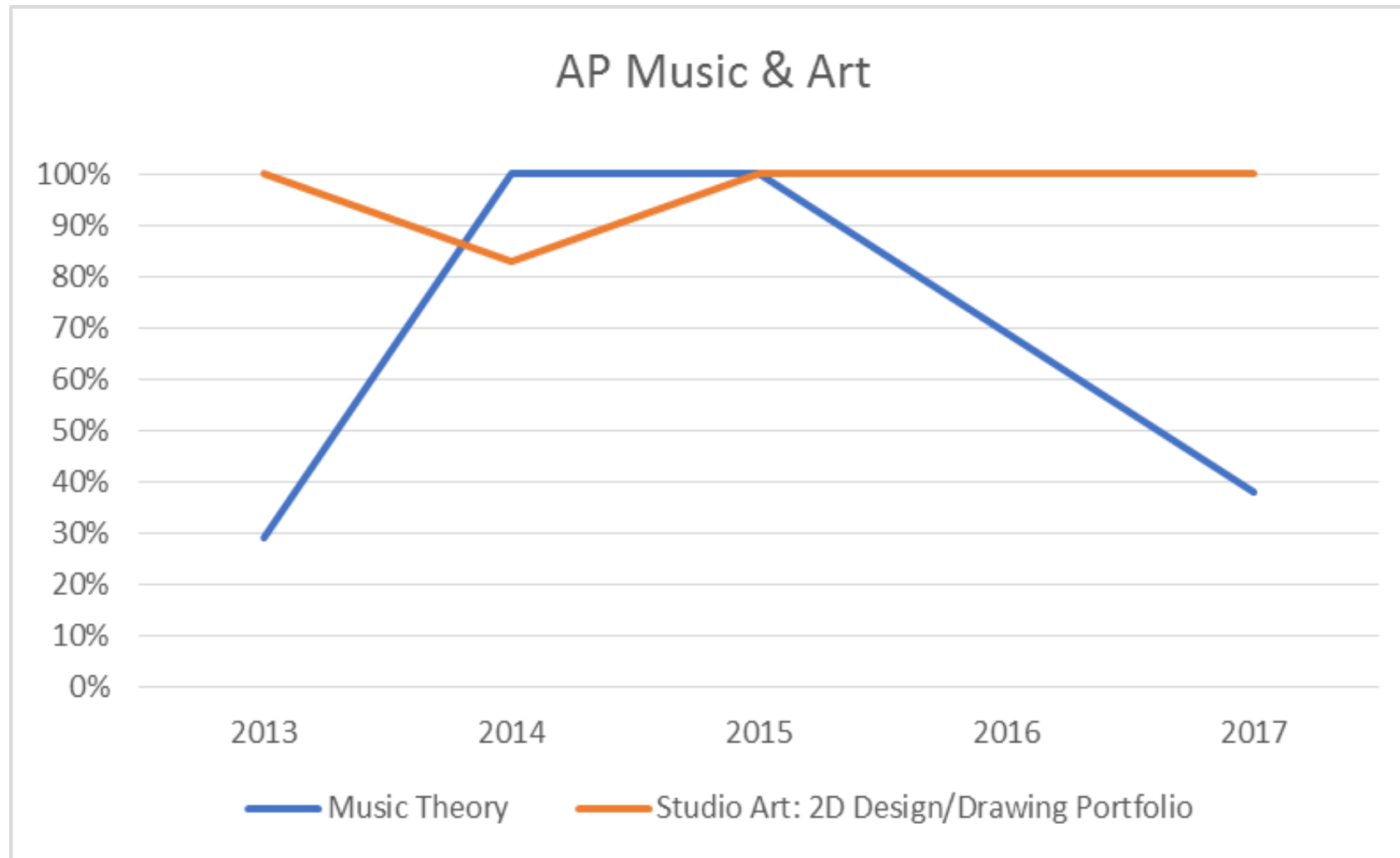
**National Passing
% 2017**

French: 75%

Spanish: 88%

Latin: 63%

AP Art & Music



Average number of students taking exam annually:

2D Design: 2

Portfolio: 3

Music Theory: 7

**National Passing
% 2016**

2D: 85%

Portfolio: 85%

Music Th: 61%

Red box indicates performance below National average

Executive Summary – AP Exams

- Consideration of how to gain more/deeper data on AP exams & courses to better understand shifts in scores
- Future contemplation of correlation between course experiences and AP test scores
- Departments can utilize data to inform instruction and reflect on past experiences

HISTORICAL DATA

The following slides depict examples of the class of 2020 & 2021 as they progressed through the Irvington Schools

Grades 3 - 8 Mathematics - Levels 3 & 4

Math - Proficient & Advanced						
Year	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8
2011	76%	90%	91%	93%	96%	90%
2012	85%	87%	94%	88%	90%	95%
2013	61%	66%	62%	68%	60%	68%
2014	67%	76%	75%	73%	71%	61%
2015	63%	73%	76%	73%	64%	62%
2016	81%	69%	72%	82%	73%	55%
2017	77%	80%	71%	76%	75%	56%

2013 & 2014 represent new cut scores and scale scoring for Grades 3-8

Grades 3 - 8 English Language Arts - Levels 3 & 4

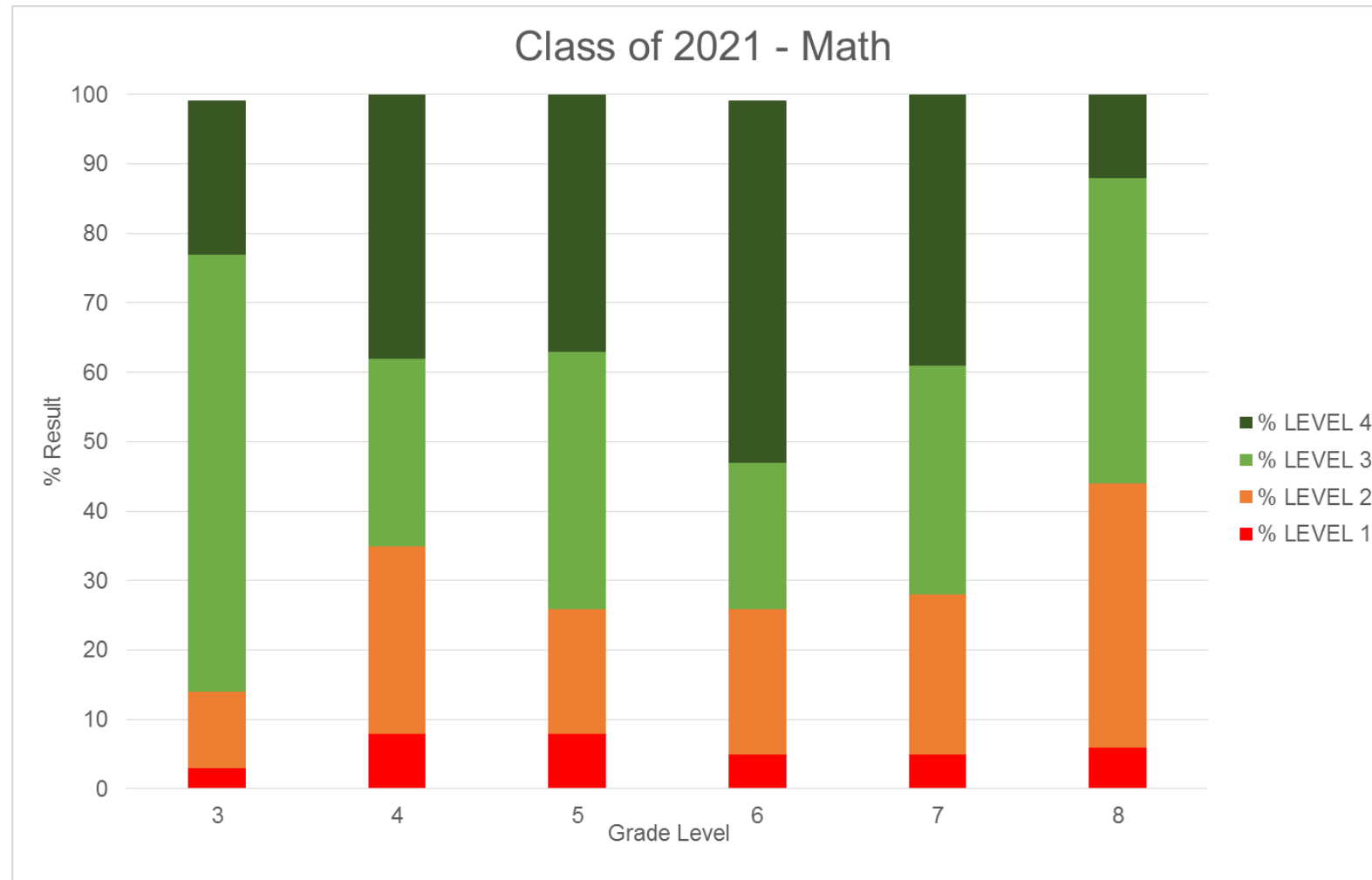
ELA - Proficient & Advanced						
Year	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8
2011	82%	90%	79%	83%	81%	79%
2012	86%	84%	88%	77%	78%	80%
2013	55%	74%	62%	74%	50%	56%
2014	63%	64%	67%	60%	63%	57%
2015	52%	68%	63%	66%	59%	76%
2016	78%	66%	63%	68%	73%	75%
2017	66%	74%	64%	69%	82%	73%

2013 & 2014 represent new cut scores and scale scoring for Grades 3-8

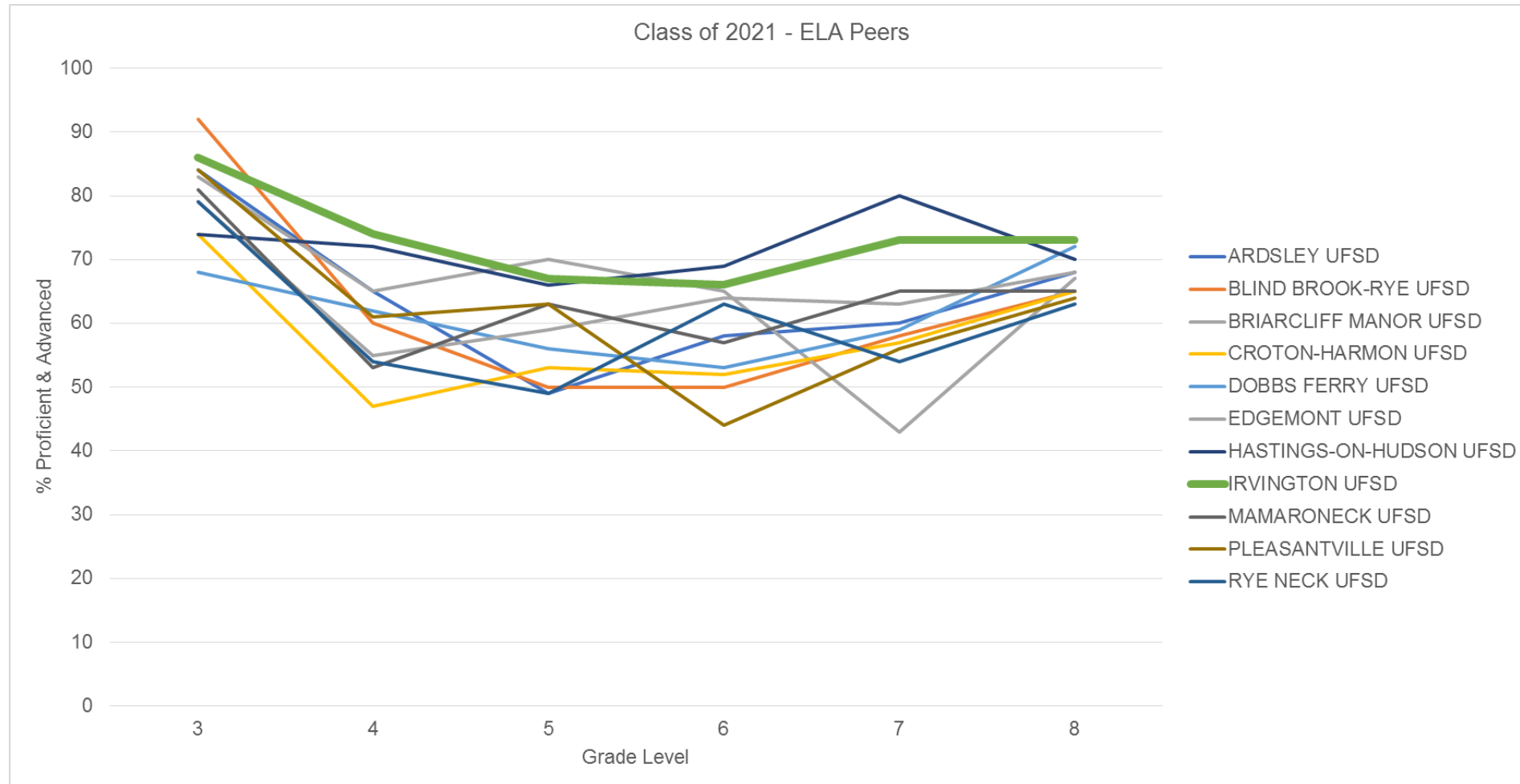
Historical View: Class of 2021 Performance Grades 3-8



Historical View: Class of 2021 Performance Grades 3-8

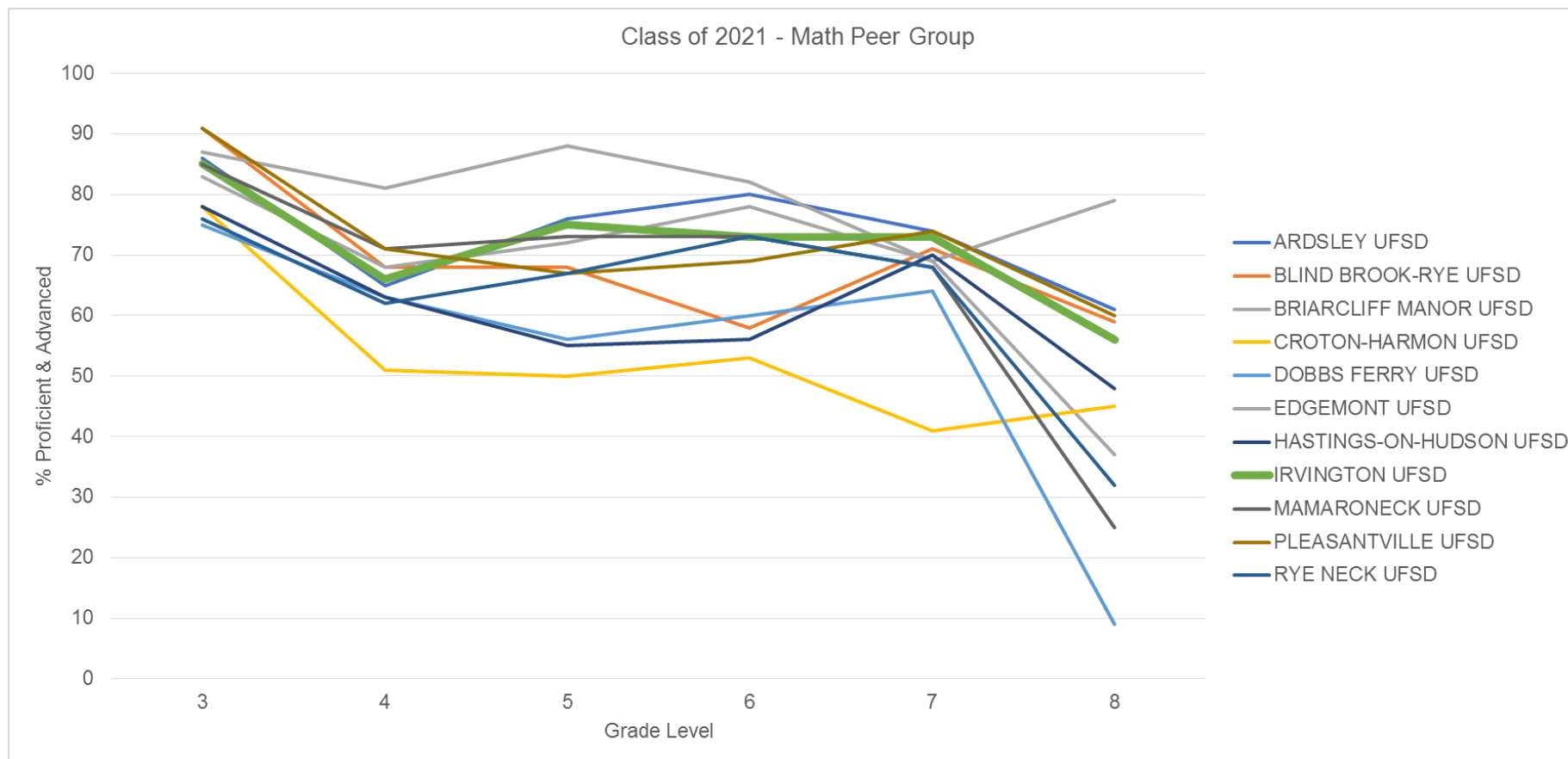


Historical View: Class of 2021 – ELA Performance



This chart follows the performance of the class of 2021 through 5 years – vs a cohort of comparison schools' 2021 classes

Historical View: Class of 2021 – Math Performance



This chart follows the performance of the class of 2021 through 5 years – vs a cohort of comparison schools' 2021 classes

Critical note: in 2014 IUFSD 8th graders taking Algebra stopped taking the 8th grade NYS test. Thus, the data does not accurately reflect the 8th grade achievement – *Not sure if this applies*

Summary Notes

- Again, test data gives the District a window into how students perform on a specific test on a specific date(s)
- Information can be useful, but is also limited due to numerous factors such as the consistent changes in testing models, shifts in cut scores, and alterations in state curriculum standards
- District remains committed to developing a local assessment program that is largely performance-based and seeks to have students demonstrate deep thinking skills and complex application of skills and knowledge

Final Thoughts

- Continue to develop and expand local common assessments
- Evolution towards more 'authentic' assessment of student learning
 - Project-based learning/assessment
 - Capstone Projects
- Data will continue to be viewed as one aspect of measuring student achievement
- District to consider expansion of data use
 - Summer-based data review with a 'data team'
 - Explore supplemental support to analyze available data

Discussion