



# Measuring What Matters: Our Story Through Data

Board of Education Meeting  
November 15, 2017



# Presenters

- Michael Greenfield, Assistant Superintendent for Curriculum & Instruction
- Brian Seligman, Director of Technology & CIO





# Guiding Questions

- What metrics do we value? Why?
- What does the data tell us?
- How do we utilize the data for continuous improvement?





# A Rising Tide Lifts All Boats...





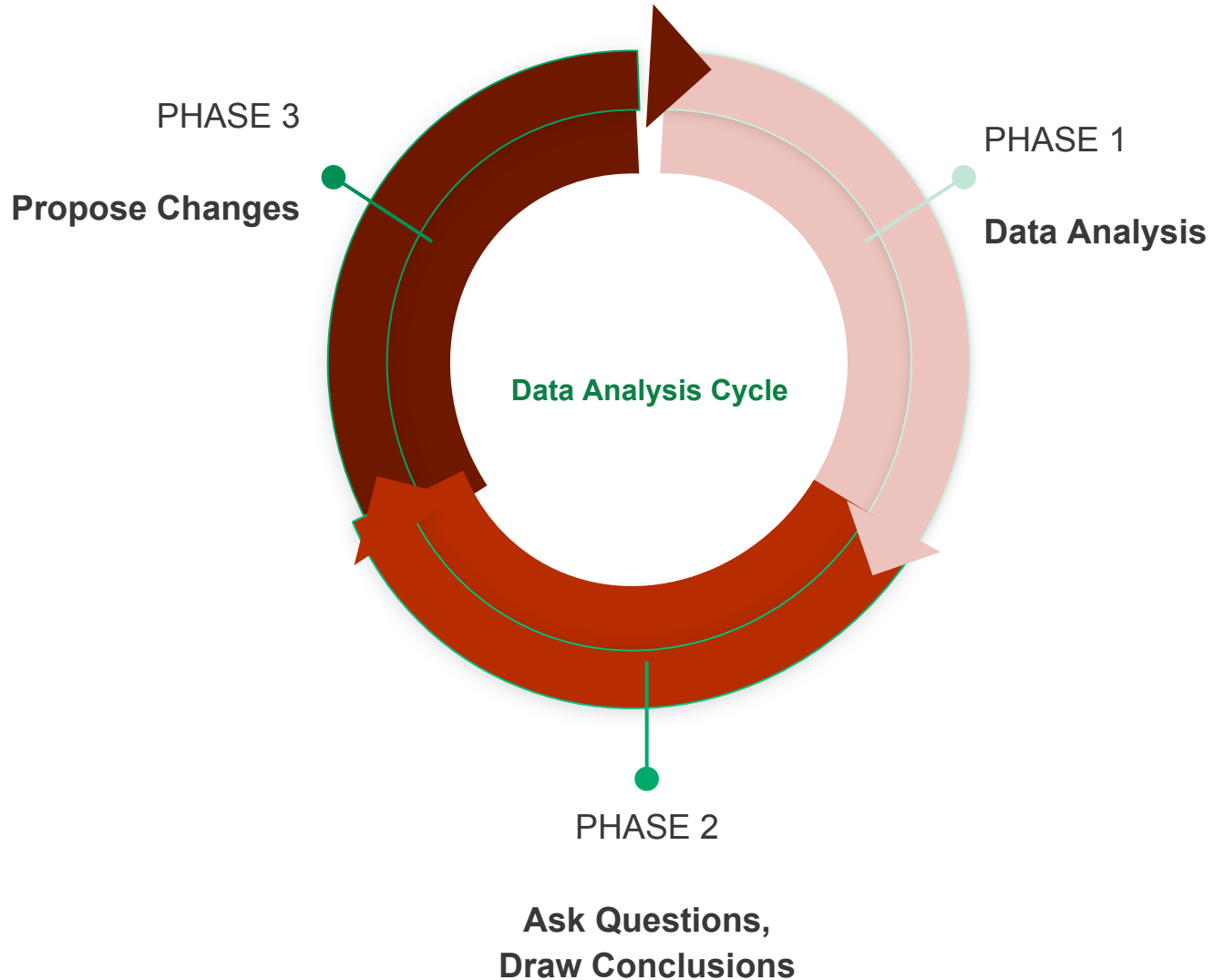
# The Research on Achievement Gaps

If we are going to close America's long-standing gaps in achievement, we need not only to bring up our low-performing students, but also to accelerate our middle and higher performers to even higher levels of achievement.

Breaking the Glass Ceiling  
Education Trust, 2013



# Continuous Improvement Cycle



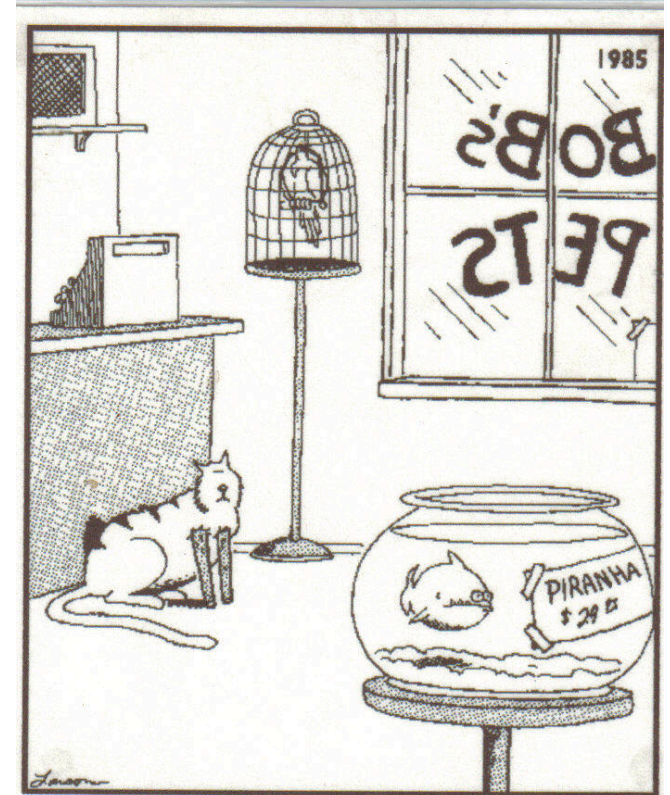




# How can we draw the right conclusions?



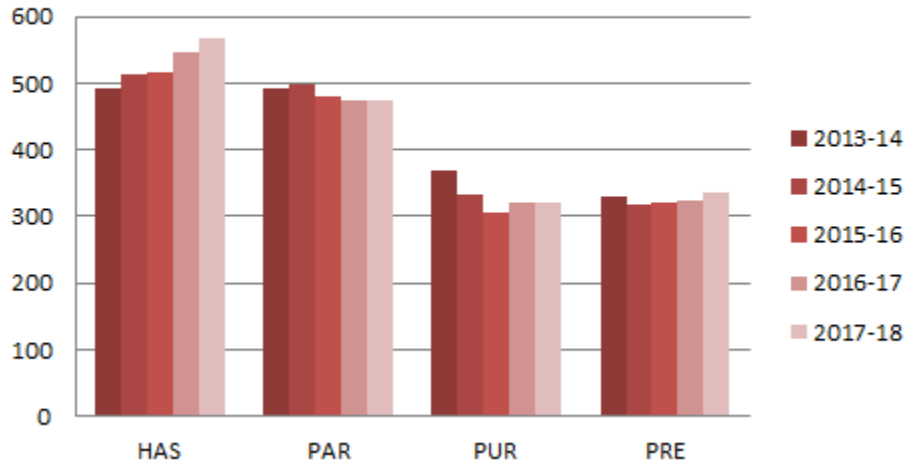
" We're pressed for time, so we'll be jumping to conclusions. "



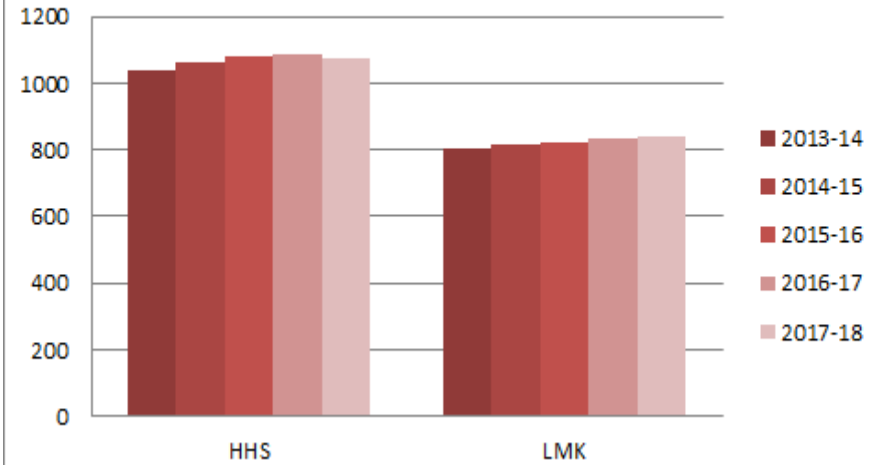


# District Enrollment: 5 Years

## Enrollment: Elementary Schools



## Enrollment: HHS & LMK



	HHS	LMK	HAS	PAR	PUR	PRE	Total
<b>2013-14</b>	1041	806	492	493	370	331	3533
<b>2014-15</b>	1062	815	514	499	333	319	3542
<b>2015-16</b>	1082	824	517	479	306	320	3528
<b>2016-17</b>	1087	834	545	475	322	324	3587
<b>2017-18</b>	1074	840	567	475	322	337	3615





# Free & Reduced Lunch, Ethnicity and ENL

School	Students	Free/Reduced Lunch	ENL
Harrison Avenue	567	8% (46)	10% (57)
Parsons	475	18% (98)	22% (107)
Preston	337	30% (116)	12% (41)
Purchase	322	4% (15)	0% (2)
LMK	840	18% (146)	7% (57)
HHS	1074	17% (144)	5% (58)



# Who are Similar Schools?

COUNTY_DESC	NAME	NYS Size	NYS D LEP	NYS D FRL
NASSAU	PORT WASHINGTON UNION FREE SCHOOL - District	5176	8.0%	17.0%
WESTCHESTER	BEDFORD CENTRAL SCHOOL - District	4315	12.0%	26.0%
ROCKLAND	CLARKSTOWN CENTRAL SCHOOL - District	8368	2.0%	11.0%
ROCKLAND	RAMAPO CENTRAL SCHOOL - District (SUFFERN)	4334	3.0%	22.0%
WESTCHESTER	MAMARONECK UNION FREE SCHOOL - District	5183	4.0%	17.0%
NASSAU	EW HYDE PARK-GARDEN CITY PARK UNION FREE SCHOOL - Distri	1659	5.0%	18.0%
ROCKLAND	NANUET UNION FREE SCHOOL - District	2207	4.0%	19.0%
NASSAU	OCEANSIDE UNION FREE SCHOOL - District	5637	4.0%	15.0%
WESTCHESTER	TUCKAHOE UNION FREE SCHOOL - District	1057	5.0%	17.0%
WESTCHESTER	HARRISON CENTRAL SCHOOL - District	3542	8.0%	17.0%
NASSAU	FRANKLIN SQUARE UNION FREE SCHOOL - District	1840	3.0%	14.0%
WESTCHESTER	PELHAM UNION FREE SCHOOL - District	2799	1.0%	11.0%
NASSAU	FLORAL PARK-BELLEROSE UNION FREE SCHOOL - District	1474	2.0%	15.0%
ROCKLAND	PEARL RIVER UNION FREE SCHOOL - District	2537	1.0%	11.0%
WESTCHESTER	VALHALLA UNION FREE SCHOOL - District	1495	3.0%	14.0%
NASSAU	ROCKVILLE CENTRE UNION FREE SCHOOL - District	3554	1.0%	11.0%
WESTCHESTER	Dobbs Ferry	1460	3%	16.0%
SUFFOLK	Hauppauge	3747	2%	11%
WESTCHESTER	Rye Neck	1544	3%	13%
ROCKLAND	South Orangetown	3183	3%	13%
NASSAU	Bethpage	2896	2%	18%
Nassau	Locust Valley	2159	4%	17%



# External Benchmarking: NYS ELA & Math



School Meter

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## 2017 ELA 5, All –

- Export
- Show Schools
- View Summary

Harrison CSD compared with 19 Districts in Comparative Districts on %Lev3&4

Rank	Pct	[+/-]	District / School	Tested	Mean	%Lev1	%Lev2	%Lev3	%Lev4	%Lev234	%Lev34
1	94.7	same	Rockville Centre UFSD	116	338.0	5.2	18.1	27.6	49.1	94.8	76.7
2	89.5	↑10.6	Bethpage UFSD	119	333.0	5.0	20.2	40.3	34.5	95.0	74.8
3	84.2	same	Pelham UFSD	224	326.0	10.7	22.3	41.1	25.9	89.3	67.0
4	78.9	↑5.2	Mamaroneck UFSD	397	325.0	12.3	23.4	34.8	29.5	87.7	64.2
5	73.7	↑42.1	Tuckahoe UFSD	82	326.0	8.5	28.0	29.3	34.1	91.5	63.4
6	68.4	↑42.1	Dobbs Ferry UFSD	91	323.0	12.1	27.5	39.6	20.9	87.9	60.4
7	63.2	↓5.2	Rye Neck UFSD	103	324.0	12.6	29.1	34.0	24.3	87.4	58.3
8	57.9	↓31.6	Locust Valley CSD	63	317.0	14.3	30.2	41.3	14.3	85.7	55.6
9	52.6	↑42.1	Harrison CSD	250	318.0	16.4	29.2	34.4	20.0	83.6	54.4
10	47.4	↓10.5	Hauppauge UFSD	104	317.0	15.4	30.8	31.7	22.1	84.6	53.8
11	42.1	↓21.1	Pearl River UFSD	143	316.0	17.5	29.4	35.0	18.2	82.5	53.1
12	36.8	↑31.5	Valhalla UFSD	83	318.0	7.2	39.8	42.2	10.8	92.8	53.0
13	31.6	↓10.5	Nanuet UFSD	116	315.0	14.7	35.3	33.6	16.4	85.3	50.0
13	31.6	↓21.0	Port Washington UFSD	276	314.0	18.1	31.9	34.4	15.6	81.9	50.0
15	21.1	↓26.3	Clarkstown CSD	362	315.0	17.7	34.3	29.8	18.2	82.3	48.1
16	15.8	↓5.3	Bedford CSD	289	312.0	19.0	34.3	34.9	11.8	81.0	46.7
17	10.5	↑10.5	Oceanside UFSD	224	313.0	14.7	40.2	33.9	11.2	85.3	45.1
17	10.5	↑5.3	Ramapo CSD (Suffern)	215	312.0	23.7	31.2	25.1	20.0	76.3	45.1

Source: The New York State Education Department with additional analysis by SchoolMeter.com. For more details see: [About Data](#)

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# External Benchmarking: Regents



School Meter

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## 2016 CC Geometry, All —

Export

Show Schools

Harrison CSD compared with 18 Districts in Comparative Districts on %L3/65+

Rank	Pct	[+/-]	District / School	Tested	%L1	%L2	%L3	%L4	%L5	%L2+	%L3+	%L4+
1	94.4	↑16.6	Harrison CSD	199	0.5	3.0	49.2	18.6	28.6	99.5	96.5	47.2
2	88.9	↓5.5	Mamaroneck UFSD	322	0.3	3.4	38.5	17.7	40.1	99.7	96.3	57.8
3	83.3	↓5.6	Dobbs Ferry UFSD	61	1.6	3.3	36.1	16.4	42.6	98.4	95.1	59.0
4	77.8	↑16.7	Port Washington UFSD	362	1.9	3.3	50.0	16.0	28.7	98.1	94.8	44.8
5	72.2	↑27.8	Pelham UFSD	187	0.5	7.0	62.6	15.0	15.0	99.5	92.5	29.9
6	66.7	↑11.1	Pearl River UFSD	181	2.2	6.1	56.9	15.5	19.3	97.8	91.7	34.8
7	61.1	↑55.5	Bethpage UFSD	235	1.7	6.8	44.7	20.4	26.4	98.3	91.5	46.8
8	55.6	↑27.8	Nanuet UFSD	138	3.6	5.8	47.1	15.9	27.5	96.4	90.6	43.5
9	50.0	↓16.7	Bedford CSD	213	2.3	9.4	45.5	13.6	29.1	97.7	88.3	42.7
10	44.4	↓38.9	Clarkstown CSD	540	4.1	11.7	47.2	15.2	21.9	95.9	84.3	37.0
11	38.9	↑27.8	Rockville Centre UFSD	279	8.6	9.0	55.2	15.4	11.8	91.4	82.4	27.2
12	33.3	↑33.3	Hauppauge UFSD	270	7.0	10.7	50.7	10.4	21.1	93.0	82.2	31.5
13	27.8	↑11.1	Tuckahoe UFSD	53	11.3	7.5	52.8	15.1	13.2	88.7	81.1	28.3
14	22.2	↓27.8	Locust Valley CSD	160	7.5	11.9	60.6	8.8	11.3	92.5	80.6	20.0
15	16.7	↓55.5	South Orangetown CSD	182	4.9	15.4	58.2	8.8	12.6	95.1	79.7	21.4
16	11.1	↓27.8	Rye Neck UFSD	113	6.2	15.9	40.7	12.4	24.8	93.8	77.9	37.2
17	5.6	↓27.7	Ramapo CSD (Suffern)	308	7.8	17.5	43.2	14.0	17.5	92.2	74.7	31.5
18	0.0	↓22.2	Oceanside UFSD	428	20.3	17.8	45.1	8.9	7.9	79.7	61.9	16.8

Source: The New York State Education Department with additional analysis by SchoolMeter.com. For more details see: [About Data](#)

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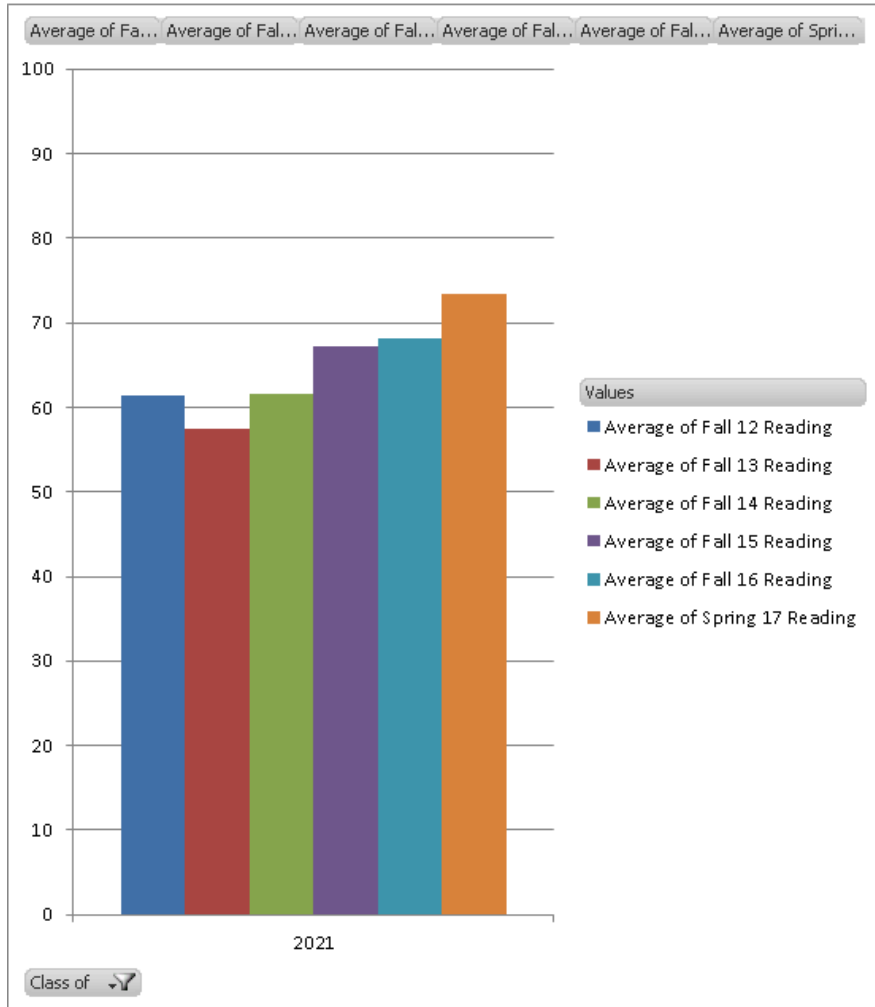
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# Student Growth Over Time

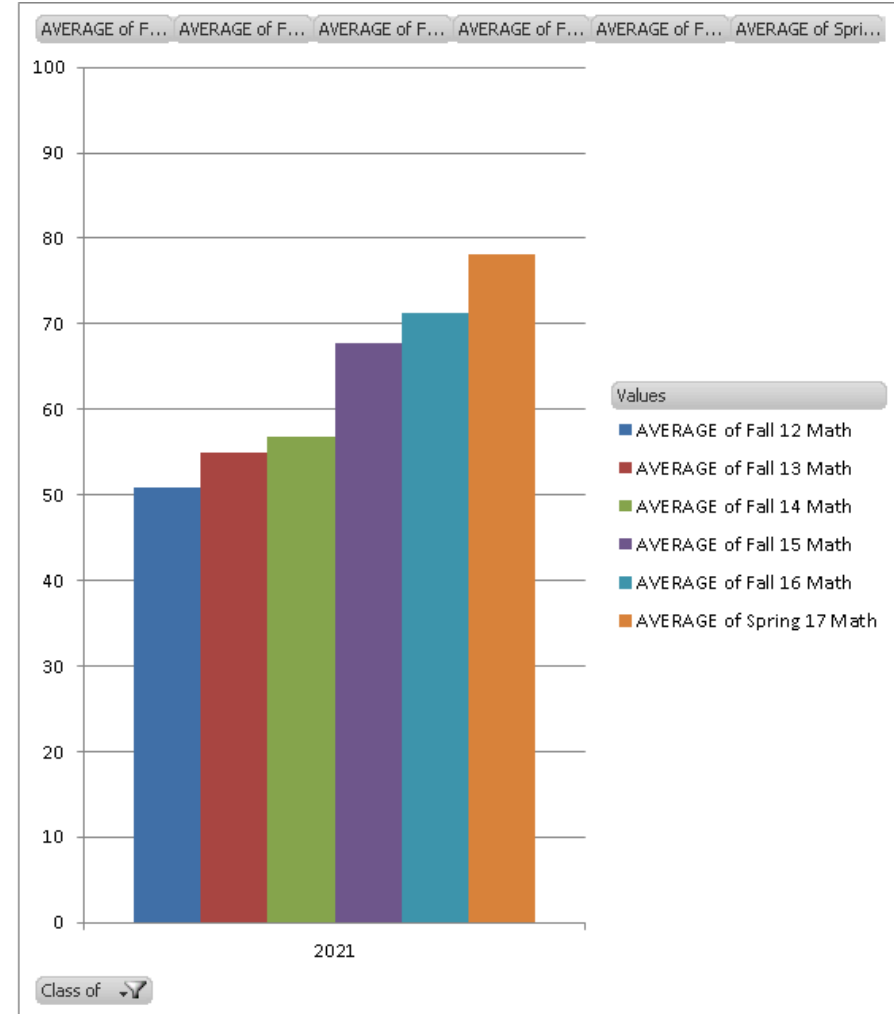
# MAP Reading

*Growth over Time*



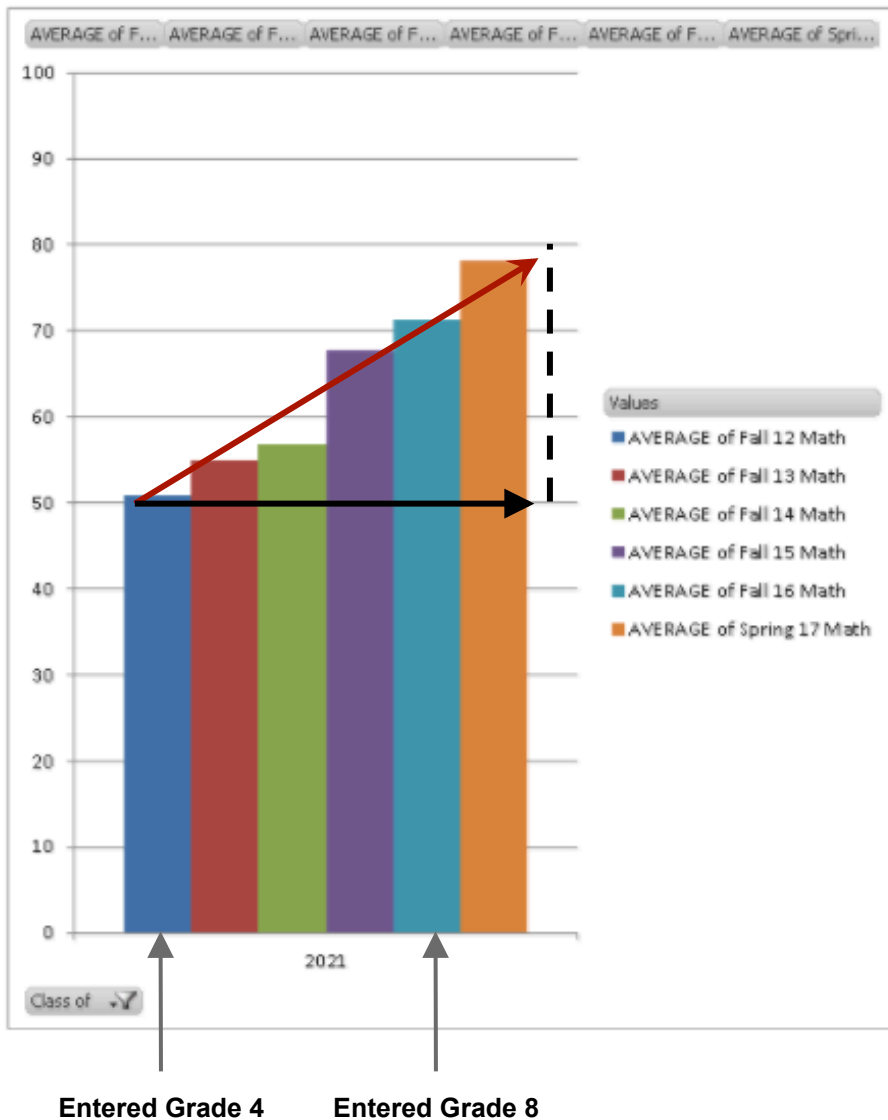
# MAP Math

*Growth over Time*





# Math MAP Results: Growth and Achievement

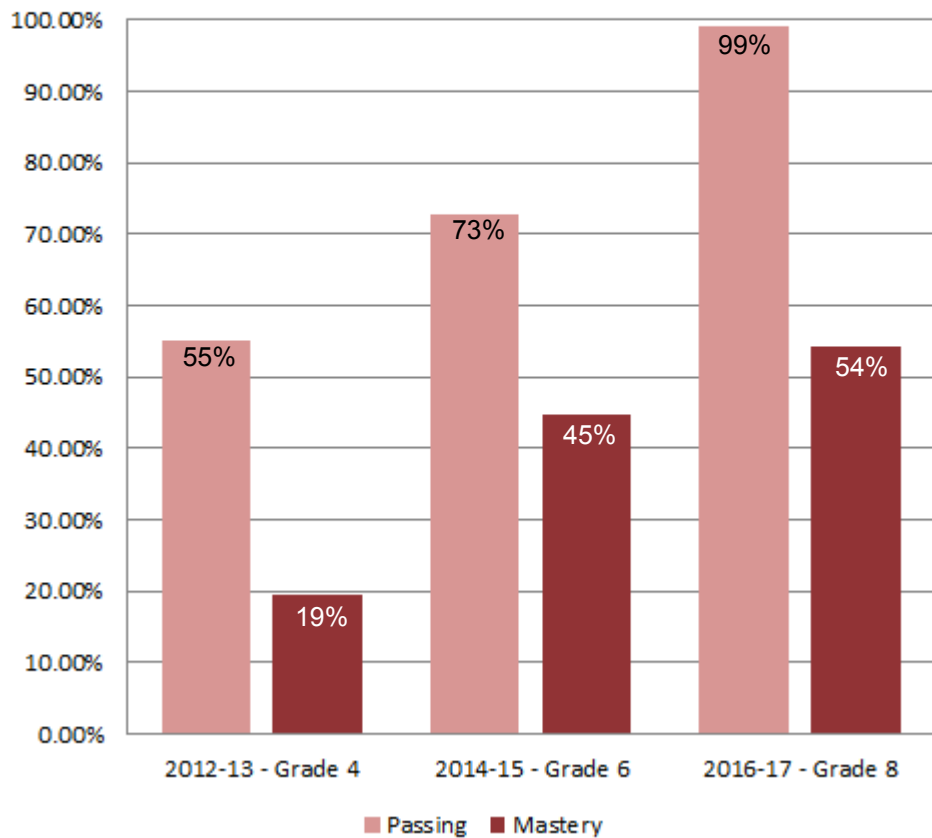




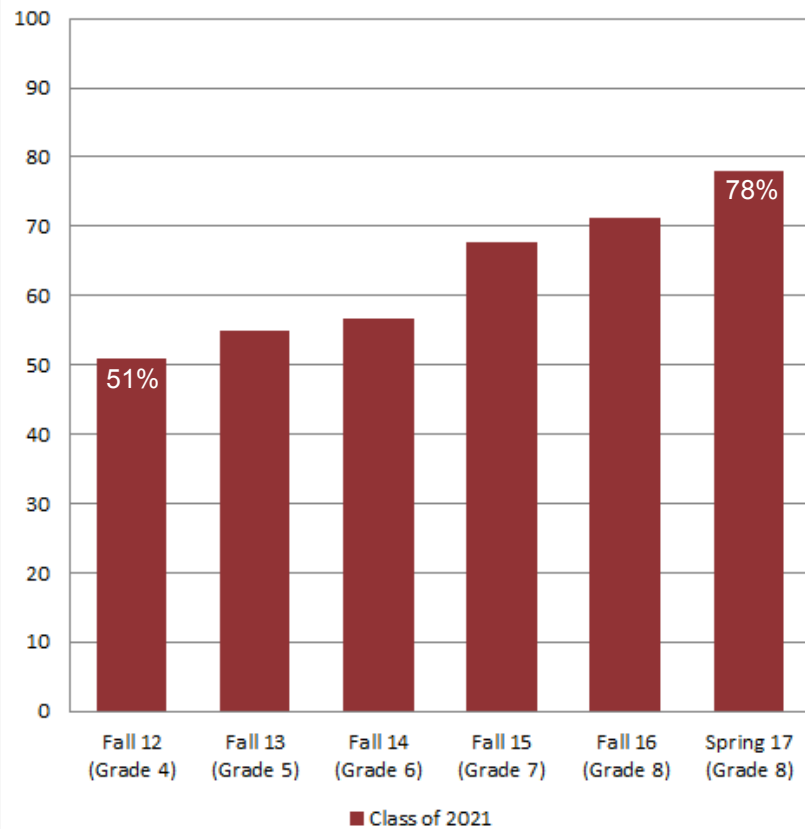


# Mathematics Achievement: Cohort 2021

**Passing/Mastery  
Grade 4 SED, Grade 6 SED,  
Grade 8 CC Algebra I**

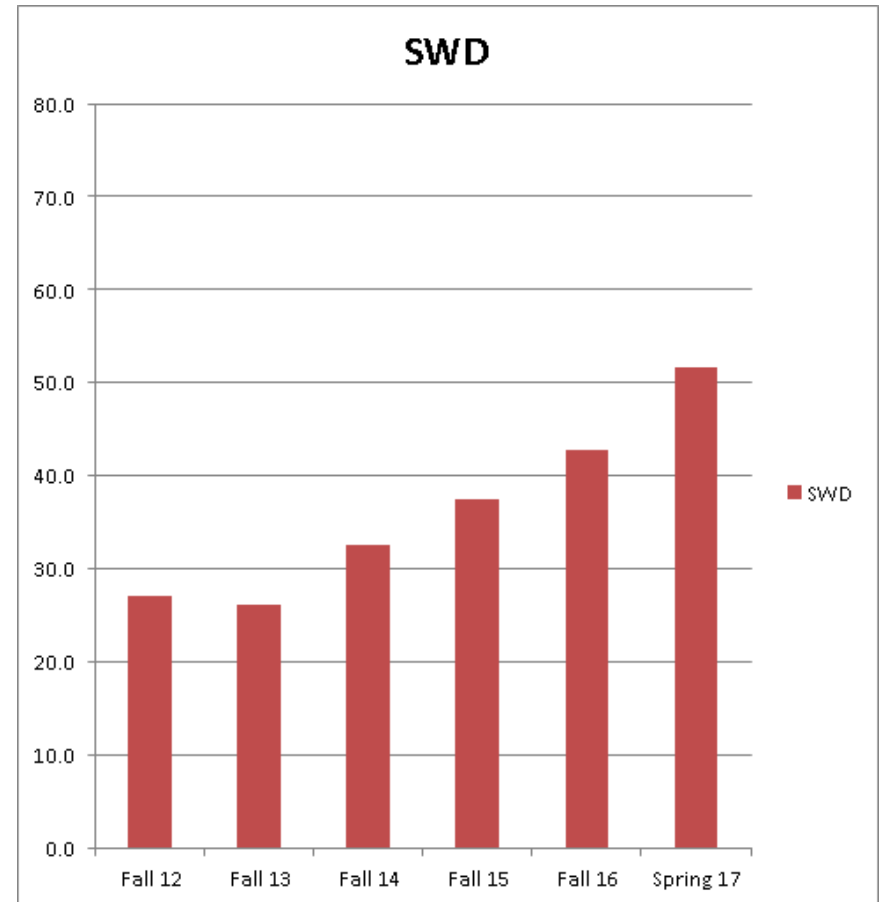
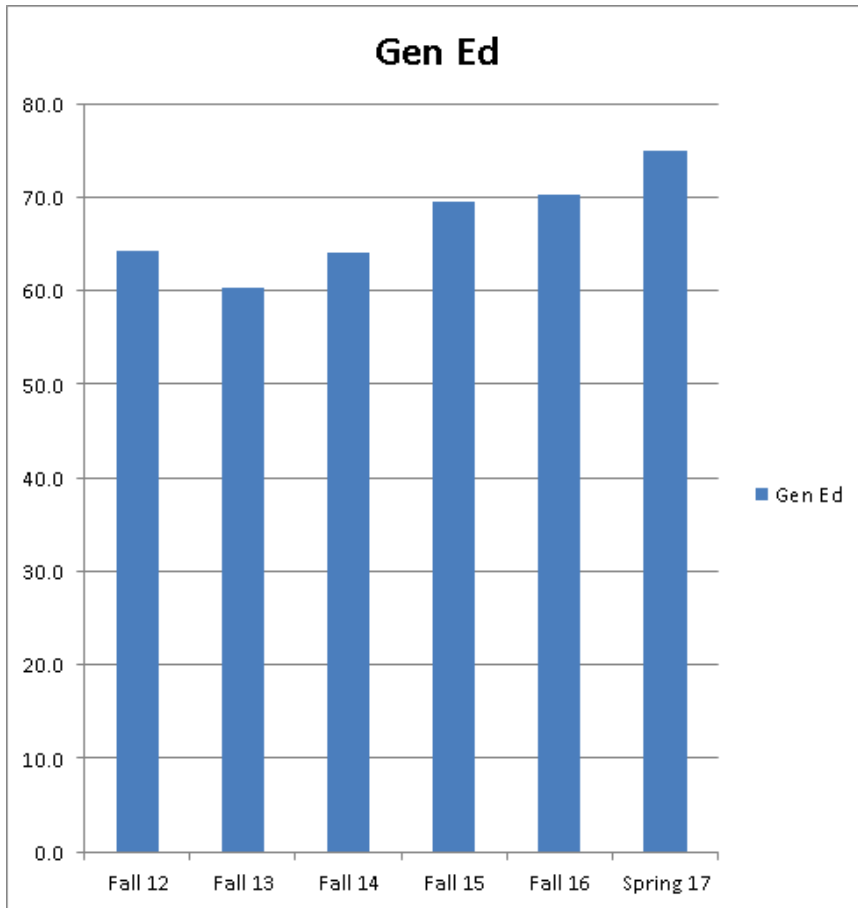


**Average MAP Math %ile by Year**





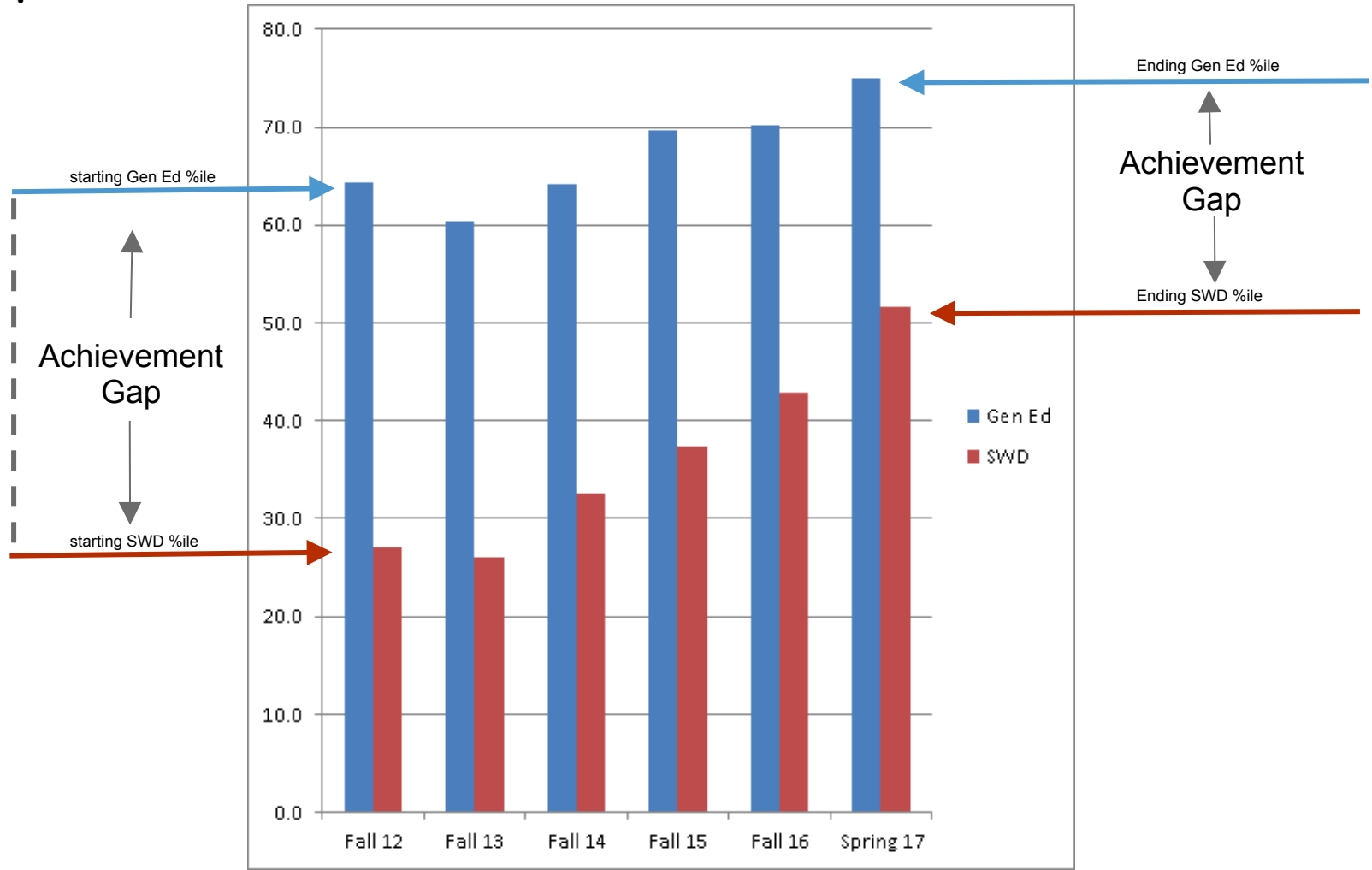
# ELA MAP %iles: General Education & SWD



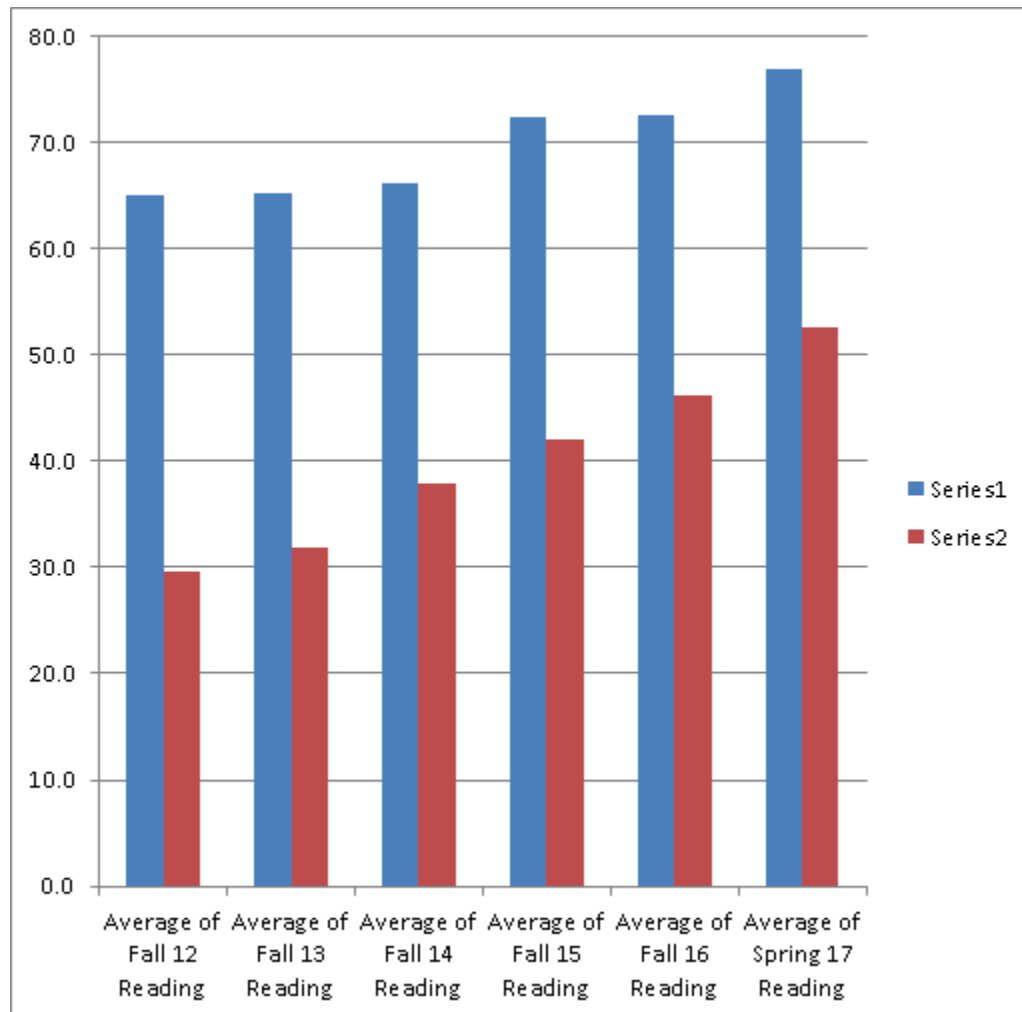
Student Cohort (Class of 2021)



# ELA MAP %iles: General Education & SWD

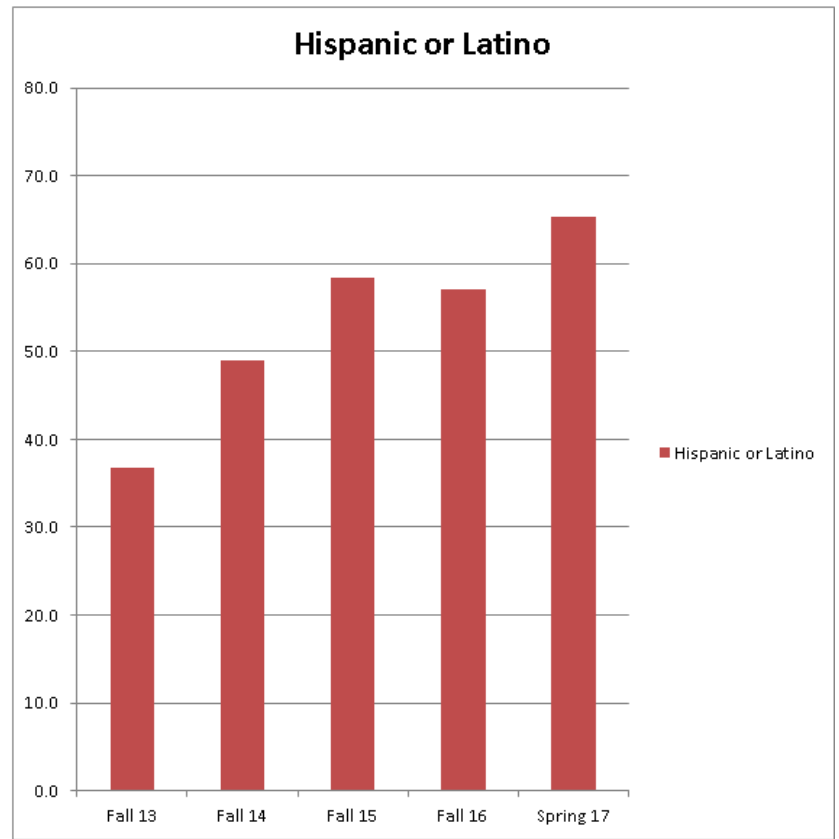
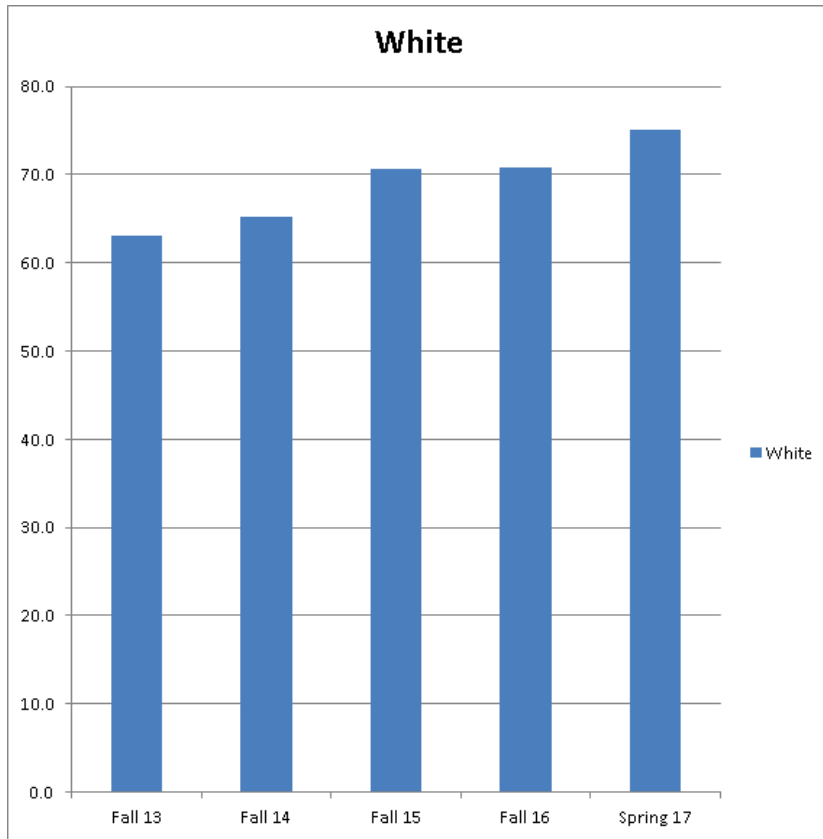


Grade 8 Student Cohort (Class of 2021)



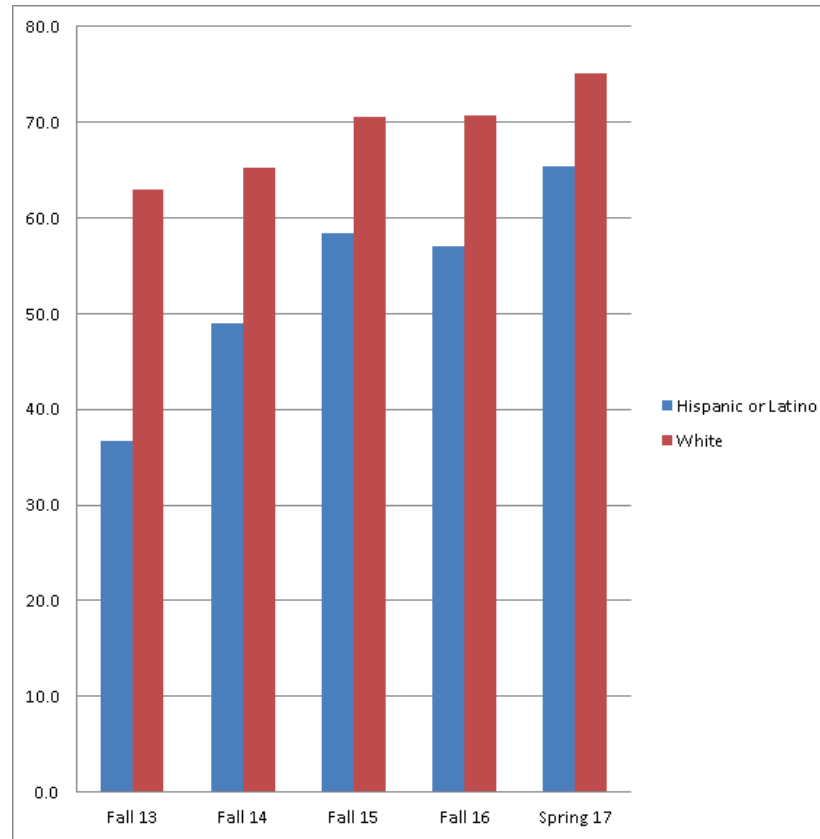


# ELA MAP %ile White & Hispanic students



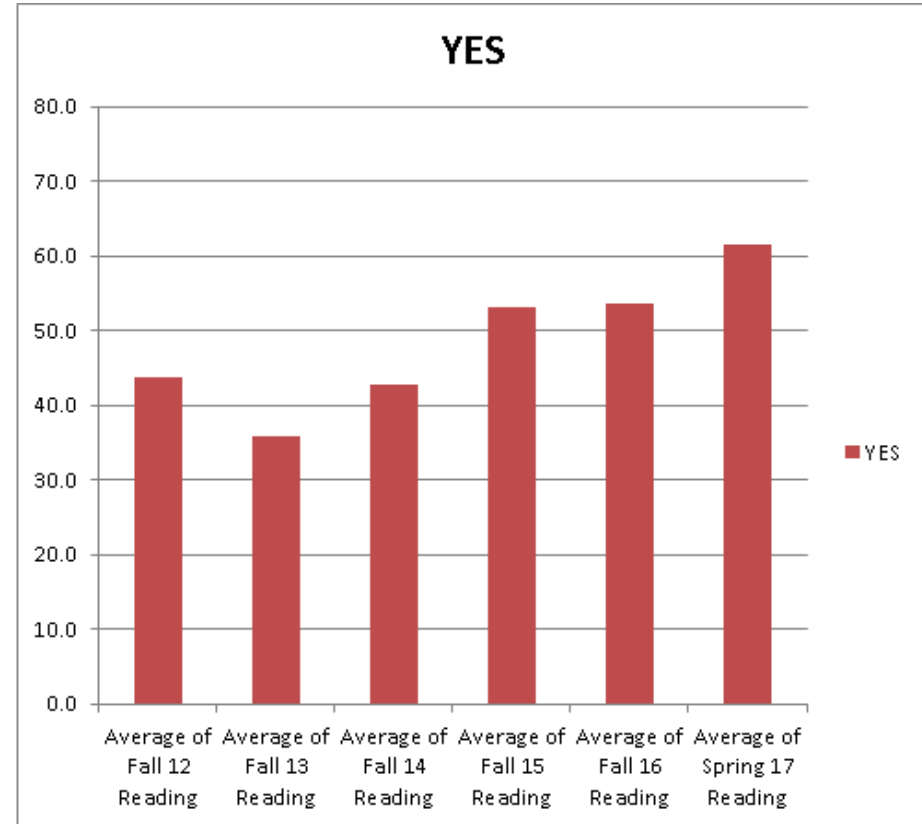
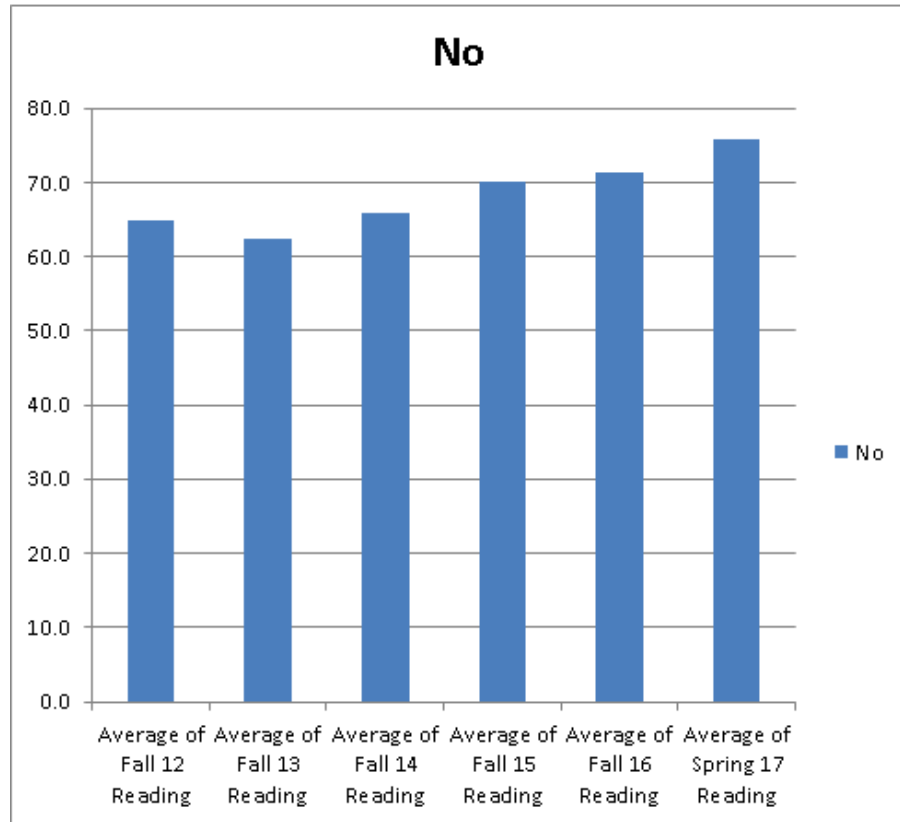


# ELA MAP %ile White & Hispanic students





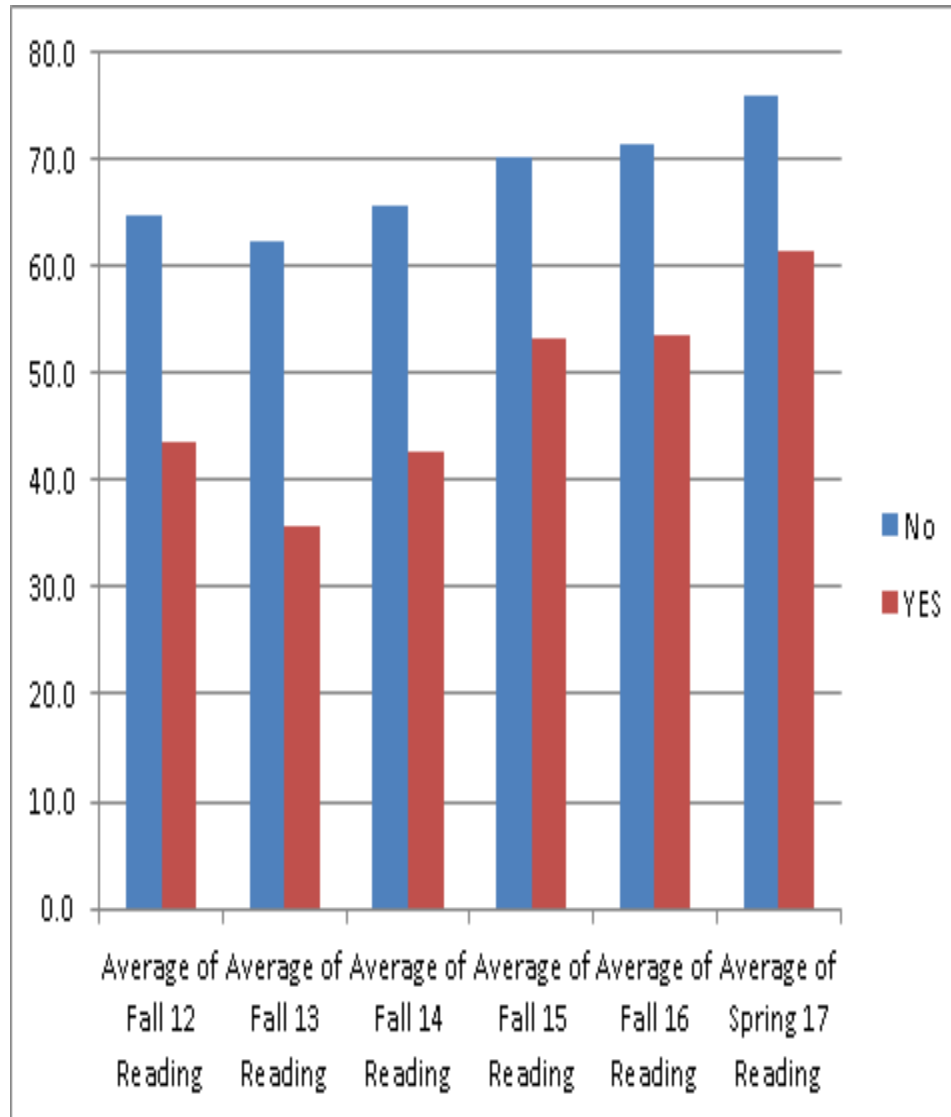
# ELA MAP %ile Poverty





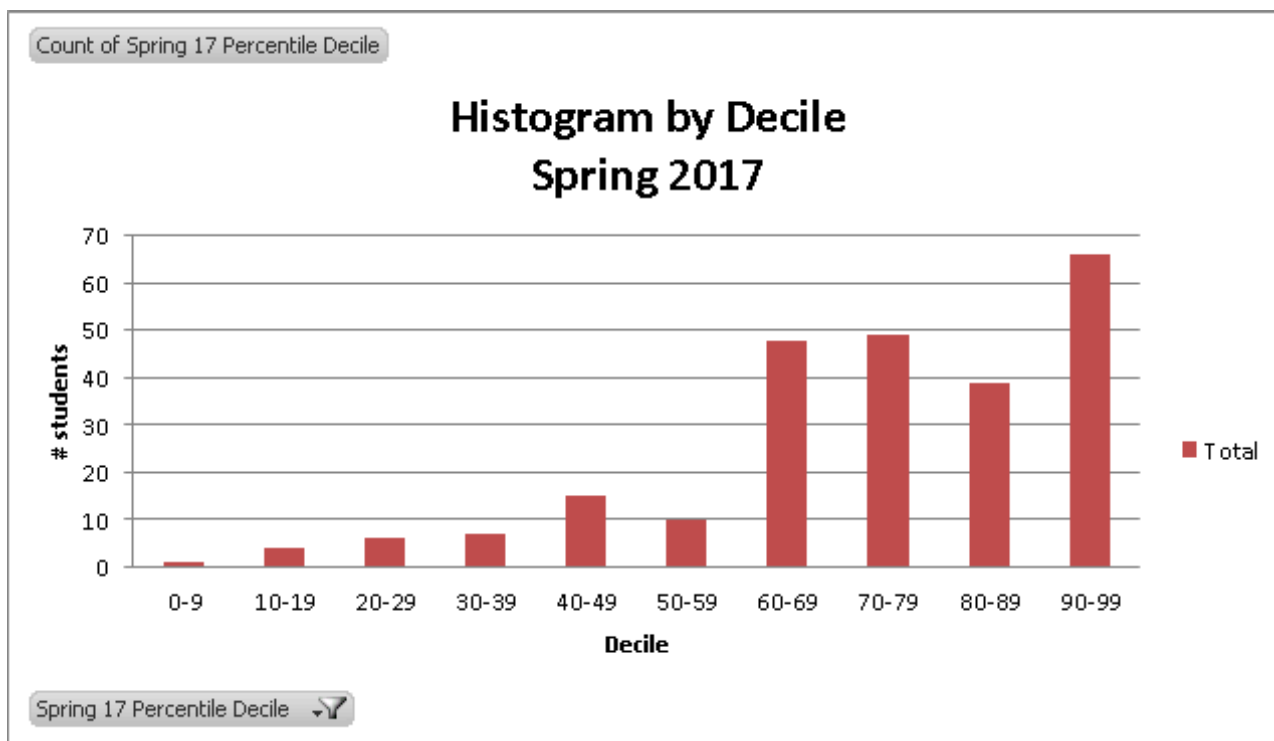


# ELA MAP %ile Poverty





# ELA MAP %iles: By Decile





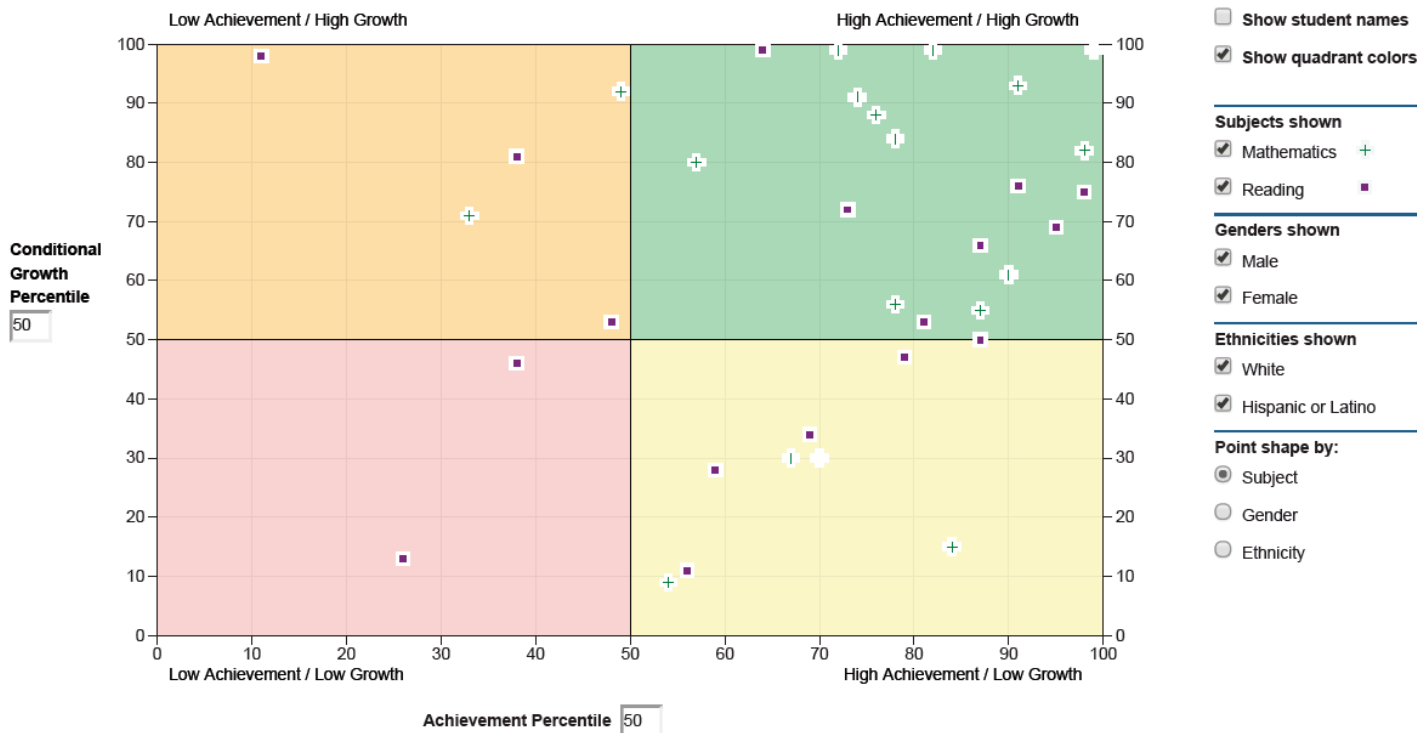
# MAP Reports - Actionable Data

## Achievement Status & Growth Summary with Quadrant Chart

Term Tested: Fall 2017-2018  
 Term Rostered: Fall 2017-2018  
 District: Harrison Central School District  
 School: Harrison Avenue School

Norms Reference Data:  
 Growth Comparison Period:  
 Weeks of Instruction:  
 Small Group Display:

2015  
 Fall 2016- Fall 2017  
 Start - 4(Fall 2016)  
 End - 4(Fall 2017)  
 No

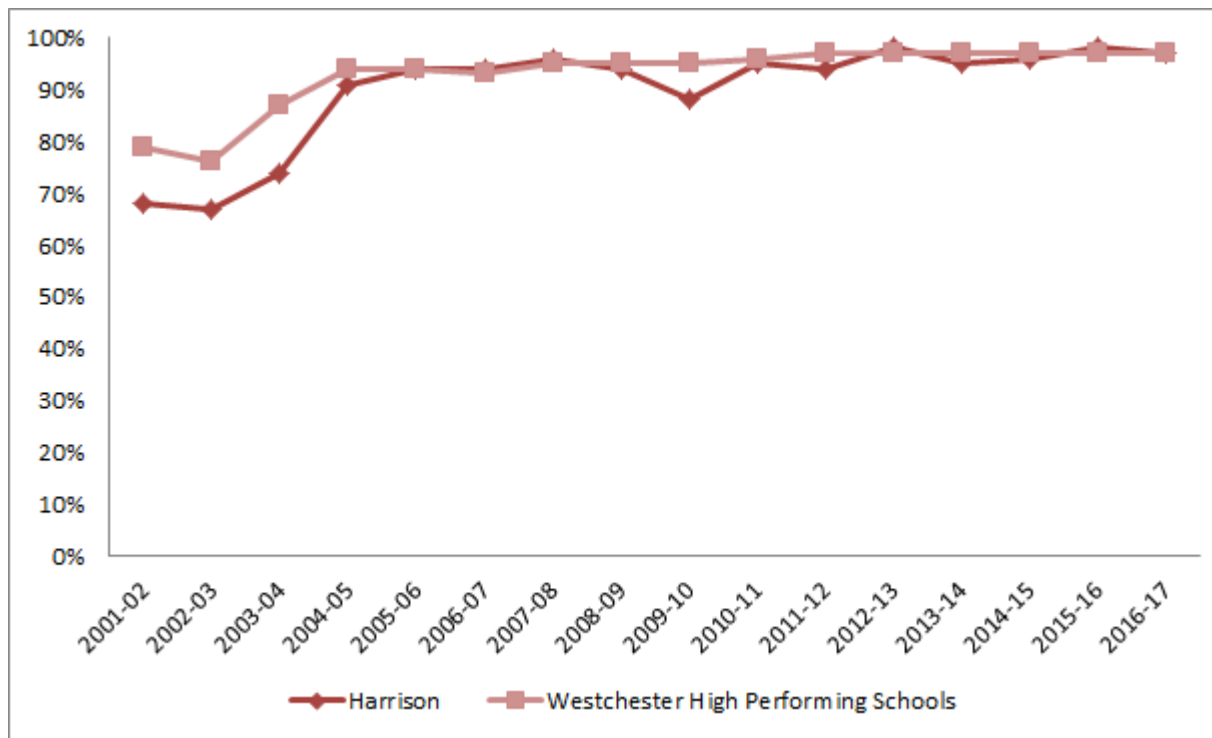




# Harrison High School: Equity & Excellence



# Regents Diploma Rate



Year	Graduates	Regents Diploma Rate	Local Diploma
2017	283	97.2%	2.8%
2016	264	98.1%	1.9%
2015	241	96.3%	3.7%
2014	247	95.1%	4.9%



# Regents Diploma Rates: SWD

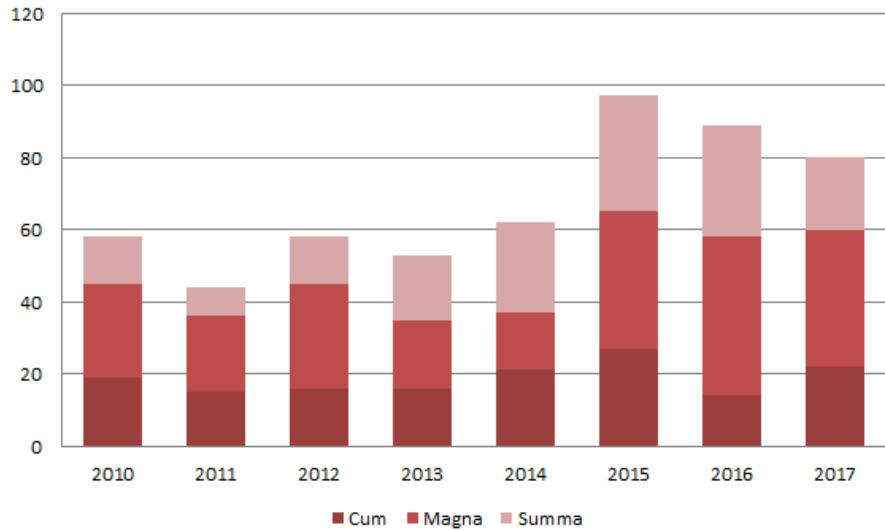
Year	Graduates	Regents Diploma Rate	Local Diploma
2017	27	77.8%	22.2%
2016	20	80%	20%
2015	19	84.2%	15.8%
2014	27	63.0%	37.0%

Year	Enrollment	Graduates in 4 years	% Graduating in 4 years
2017	30	29	96.7%
2016	21	19	90.5%
2015	24	20	83.3%
2014	27	24	88.9%

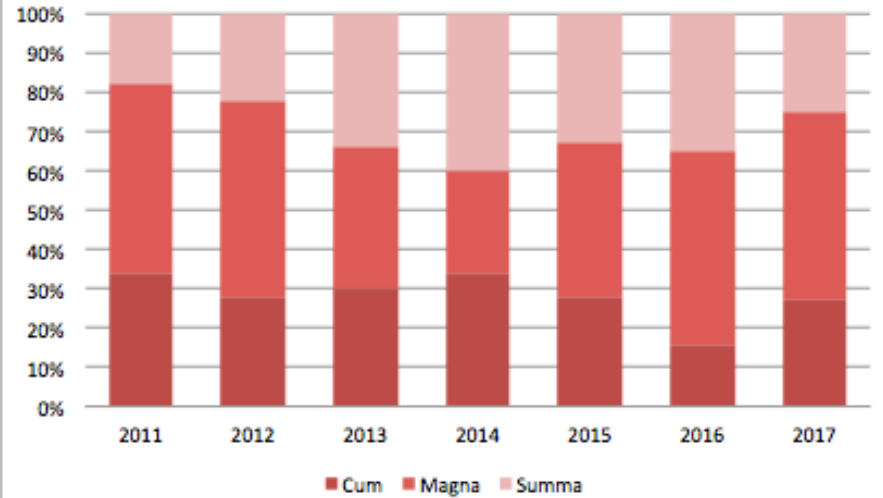


# Academic Honors

### # Academic Honors



### % Cum, Magna, Summa







# Alignment to Core Values

## Equity

- "Open Doors"
- Eliminated Student Exam Fees
- Personalized Guidance Plans
- Differentiated Academic Supports

## Excellence

- IB Exam Results
- College Admissions
- IB Scoring Feedback on Internal Assessments
- Expanded Course Offerings (24 to 29)



# Best High Schools: Washington Post Ranking

## 2017 Challenge Index #11

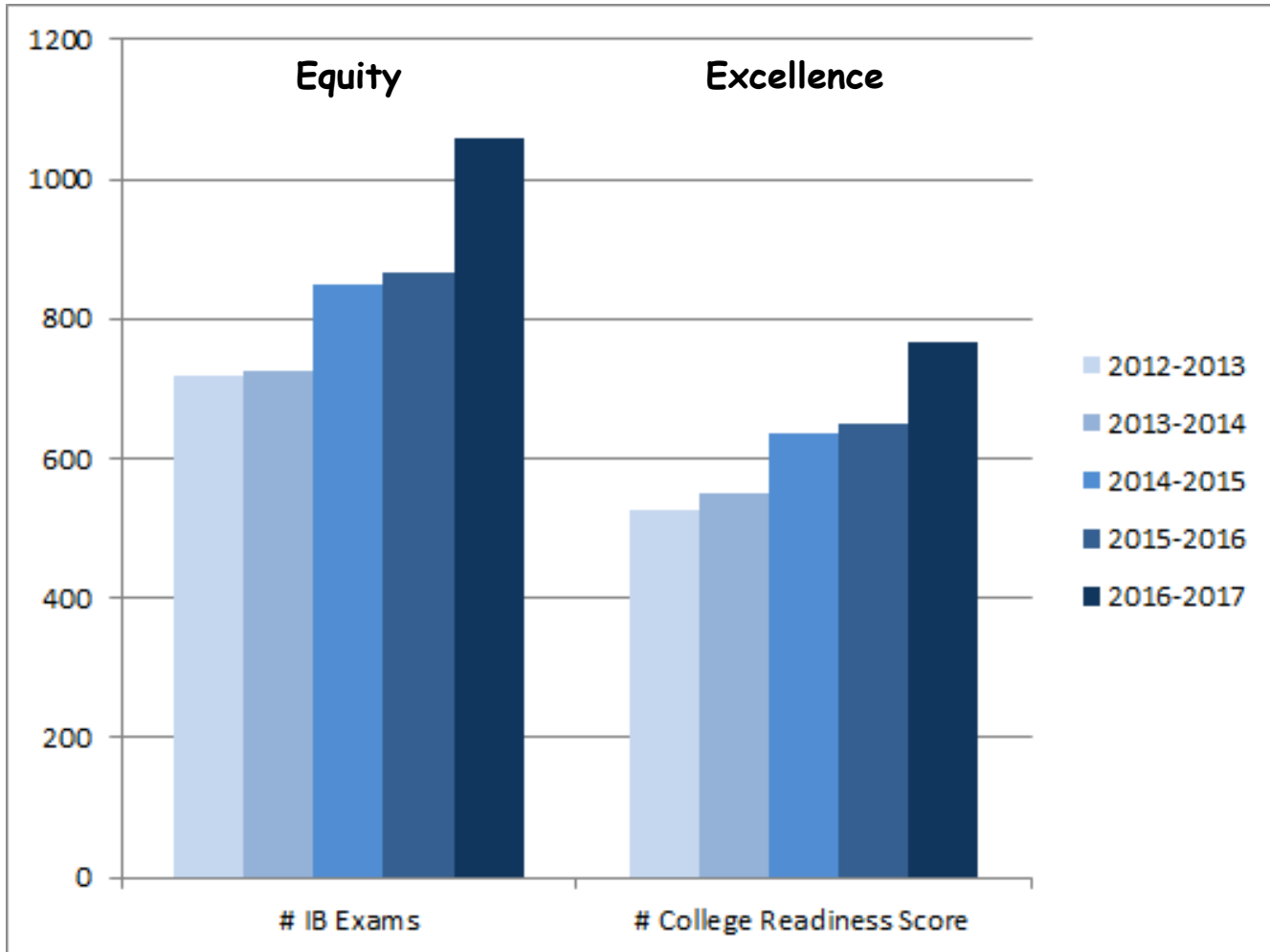
NYS Rank	School	Location	E&E %	FRL %	Index	Type
1	City Honors	Buffalo	91	34	8.975	Public
2	Newark Academy (P)	Livingston	100	0	7.071	Private
3	U.N. International (P)	New York	97	0	5.967	Private
4	Locust Valley	Locust Valley	67	16	5.918	Public
5	Manhasset	Manhasset	68.9	0.055	5.456	Public
6	Wheatley	Old Westbury	69	7	5.425	Public
7	South Side	Rockville Centre	81	15	5.339	Public
8	Syosset	Syosset	64	0.07	4.953	Public
9	Herricks	New Hyde Park	60	0.09	4.923	Public
10	Rye	Rye	80	0.03	4.885	Public
11	Harrison	Harrison	89	20	4.67	Public
12	Jericho	Jericho	95	4	4.503	Public

## 2017 Equity & Excellence #3

NYS Rank	School	Location	E&E %	FRL %	Index	Type
1	Jericho	Jericho	95	4	4.503	Public
2	City Honors	Buffalo	91	34	8.975	Public
3	Harrison	Harrison	89	20	4.67	Public
4	Brooklyn Tech	Brooklyn	88.3	61.75	4.479	Public
5	South Side	Rockville Centre	81	15	5.339	Public
6	Rye	Rye	80	0.03	4.885	Public
7	Pittsford Mendon	Pittsford	80	3	4.427	Public
8	Bronxville	Bronxville	80	2	4.425	Public
9	Garden City	Garden City	72	4	4.296	Public
10	Edgemont	Scarsdale	70	5	4.29	Public
11	Wheatley	Old Westbury	69	7	5.425	Public
12	Manhasset	Manhasset	68.9	0.055	5.456	Public



# IB Student Performance: 5 Year Review





# HHS IB Diploma Program Highlights



Graduation Year	IB Diploma Candidates	% of Total Class	% Earning Diploma*	% of Students Participating
2013	58	21%	78%	77%
2014	59	24%	92%	84%
2015	67	27%	85%	90%
2016	85	34%	82%	93%
2017	93	36%	86%	95%
2018	87	32%	---	---
2019	86	31%		

\* Worldwide average of IB candidates earning the Diploma is 79%.



# IB Participation: All Students

Cohort	Total	1 or more	2 or more	6 or more	10 or more
2012-13	254	225	196	151	92
2013-14	242	218	202	154	94
2014-15	243	226	217	175	120
2015-16	269	253	241	199	162
2016-17	279	267	257	203	151
2017-18	269	258	250	174	115
Cohort	Total	1 or more	2 or more	6 or more	10 or more
2012-13	254	88.60%	77.20%	59.40%	36.20%
2013-14	242	90.10%	83.50%	63.60%	38.80%
2014-15	243	93.00%	89.30%	72.00%	49.40%
2015-16	269	94.10%	89.60%	74.00%	60.20%
2016-17	279	95.70%	92.10%	72.80%	54.12%
2017-18	269	95.91%	92.94%	64.68%	42.75%



# IB Participation: SWD

Class of...	IB/AP enrollment	None	
<b>SWD</b>			
2013	52.17%	47.83%	
2014	51.85%	48.15%	
2015	61.90%	38.10%	
2016	71.43%	28.57%	
2017	70.37%	29.63%	
2018	80.00%	20.00%	
<b>General Education</b>			
2013	92.21%	7.79%	
2014	94.88%	5.12%	
2015	95.95%	4.05%	
2016	95.97%	4.03%	
2017	98.41%	1.59%	
2018	96.75%	3.25%	



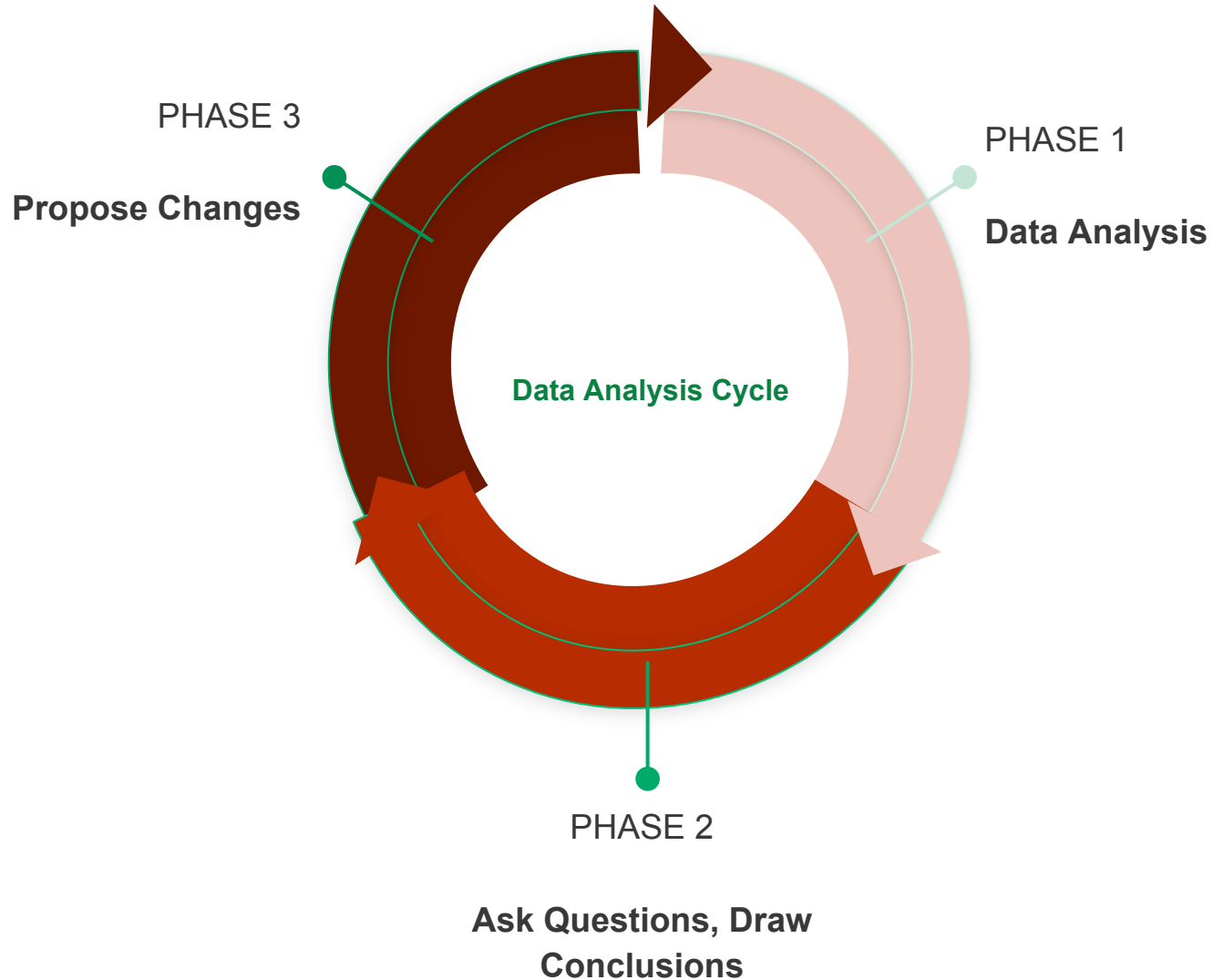
# Enrollment in Advanced Courses

<b>Grade 11: English, Social Studies, Science, Math</b>	2016/2017	2017/2018
	64.6%	71.2%

<b>Highlights</b>	2016/2017	2017/2018
AP World History – Grade 10	53.5%	56.5%
IB Science – Grade 11	69.5%	80.4%
IB English – Grade 11	50.0%	61.1%



# Relentless Improvement Cycle







# Qualitative Research

## Sample Student Survey Questions

What are your top 5 reasons for enrolling in IB courses at Harrison High School?

Please indicate your perceptions of the following academic & non-academic features of Harrison High School's IB program:

Academic rigor
Teacher quality
Quality of students enrolled
Variety of course options
Students' voice in shaping their education
Depth of material covered
Academic support for students
College preparation
Preparation for international study
Global focus of material
Pace of learning
Career preparation

Student diversity
Ability to participate in extracurricular activities (e.g., sports, clubs, service opportunities)
Ease of scheduling
School-life balance
Facilities
Technology integration
Availability of information before enrolling
Social-emotional support for students
Student-teacher relationships
Sense of community



Students

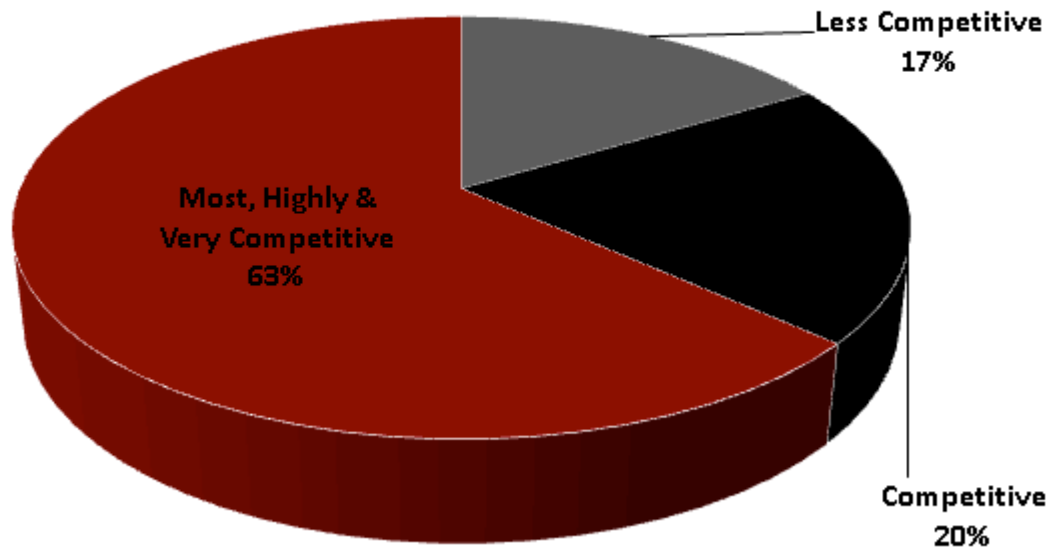
Parents





# College Admissions

Class of 2017- Students' Most Competitive Acceptance



	Average of IB/AP enrollments
Most competitive	14.0
Competitive	5.4
Less Competitive	4.1
<b>Grand Total</b>	<b>11.2</b>

→ **149 students (53%)** were accepted to at least 1 “Most, Highly or Very Competitive” School



# Questions & Answers