Lewisburg Area School District

Data Analysis Report
2016-2017 School Year

Spring 2017 Terra Nova and PSSA Results
Keystone Exams Results
School Performance Profile
AP School and Five Year Score Summary
2016-2017 SAT and ACT Results

October 26, 2017
Dr. Steven C. Skalka, Superintendent
Cathy Moser, Assistant Superintendent


TERRANOVA
3
The new standard in achievement

Terra Nova – Summative, Nationally Normed Assessments given in the Spring (K-2)

2nd Grade

	Grade Level Achievement	Reading		Grade Level Achievement	Math	
Advanced	>= 5.7	41		>= 4.3	23	
Proficient	3.2 – 5.6	58		3.1 - 4.2	56	
Nearing Proficient	2.1 – 3.1	21 = 120	90.2%	2.2 – 3.0	41 = 120	90.2%
Progressing	1.5 – 2.0	10		2.1 – 1.6	10	
Starting Out	<= 1.5	3 = 13	9.8%	<= 1.5	3 = 13	9.8%

Terra Nova – Summative, Nationally Normed Assessments given in the Spring (K-2)

1st Grade

	Grade Level Achievement	Reading		Grade Level Achievement	Language	
Advanced	>= 5.7	18		>= 7.5	30	
Proficient	3.2 – 5.6	49		3.6 – 7.4	31	
Nearing Proficient	2.1 – 3.1	39		1.9 – 3.5	42	
Progressing	1.4 – 2.0	24 = 130	92.8%	1.3 – 1.8	22 = 125	89.3%
Starting Out	<= 1.3	10 = 10	7.2%	<= 1.2	15 = 15	10.7%

Terra Nova – Summative, Nationally Normed Assessments given in the Spring (K-2)

1st Grade			
	Grade Level Achievement	Math	
Advanced	>= 4.1	10	
Proficient	3.0 – 4.0	28	
Nearing Proficient	2.2 – 2.9	46	
Progressing	1.6 – 2.1	29 = 113	80.1%
Starting Out	<= 1.5	27 = 27	19.9%

Terra Nova – Summative, Nationally Normed Assessments given in the Spring (K-2)

K

Grade Level Achievement	Reading		Language		Math	
>= 3.0	35		47		8	
2.0 – 2.9	24		23		27	
0.7 – 1.9*	70 = 129	93.5%	57 = 127	92.0%	76 = 111	80.4%
0.0 – 0.6	9 = 9	6.5%	11 = 11	8.0%	27 = 27	19.6%

*test is given in March, approximately 70% of the way through the school year


PSSA

PSSA Results – Percent Advanced or Proficient

	Math			**ELA**		
	2015	2016	2017	2015	2016	2017
3rd	69%	78%	80%	76%	77%	81%
4th	70%	63%	66%	80%	77%	81%
5th	73%	78%	71%	84%	84%	81%
	Science					
	2015	2016	2017			
4th	97%	88%	88%			

"New PSSA" aligned to PA Core introduced in 2016

PSSA Results – Percent Advanced or Proficient

	Math			**ELA**		
	2015	2016	2017	2015	2016	2017
6th	71%	78%	74%	72%	81%	77%
7th	68%	64%	73%	78%	80%	82%
8th	61%	71%	64%	77%	78%	84%
	Science					
	2015	2016	2017			
8th	78%	80%	80%			

"New PSSA" aligned to PA Core introduced in 2016

PSSA Results – Percent Advanced or Proficient

	Math			ELA		
	2015	2016	2017	2015	2016	2017
3rd	69%	78% →	80%	76%	77% →	81%
4th	70%	63% →	66%	80%	77% →	81%
5th	73%	78% →	71%	84%	84% →	81%
6th	71%	78% →	74%	72%	81% →	77%
7th	68%	64% →	73%	78%	80% →	82%
8th	61%	71% →	64%	77%	78% →	84%

"New PSSA" aligned to PA Core introduced in 2016

PSSA Results – Percent Advanced or Proficient

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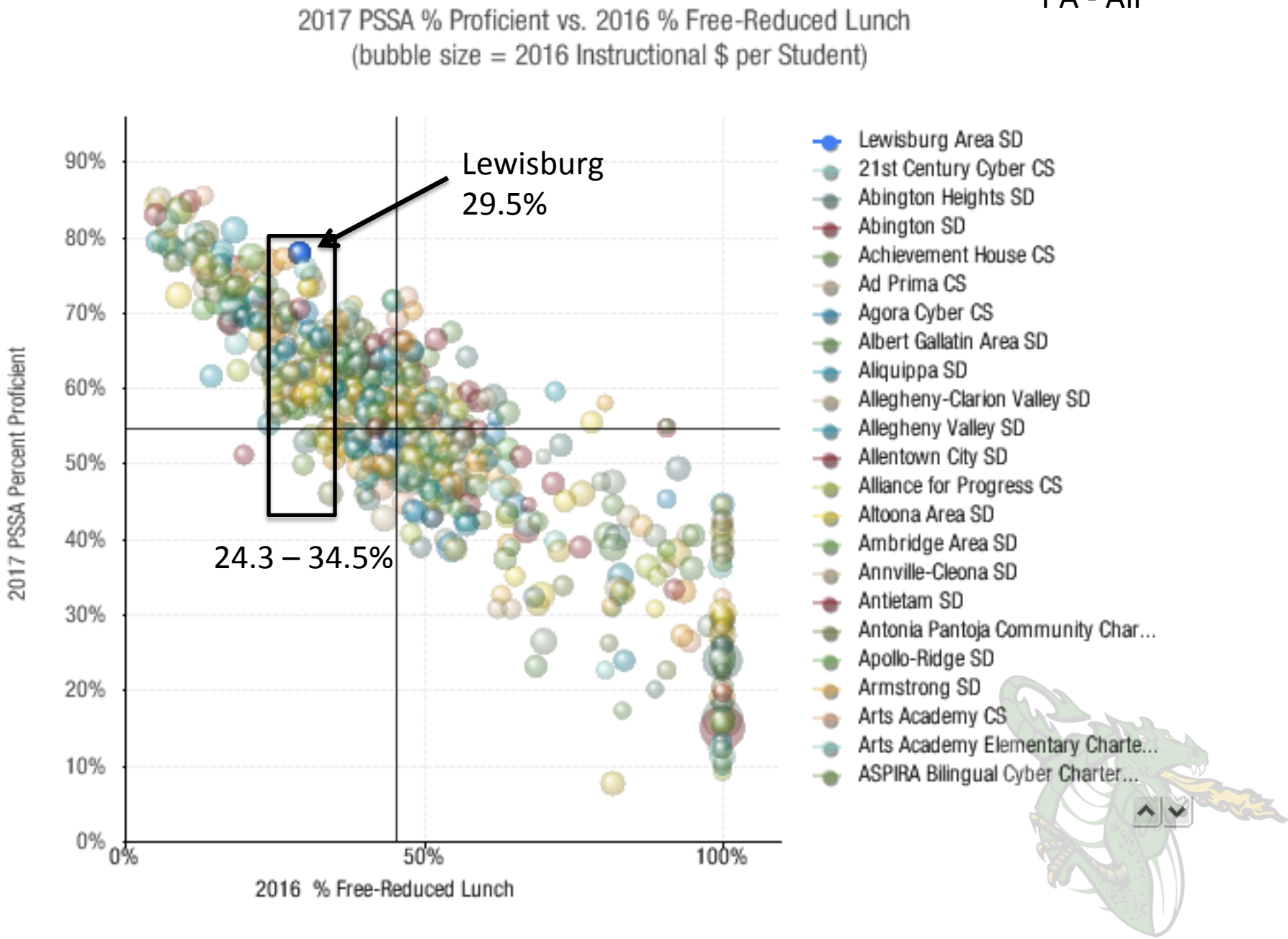
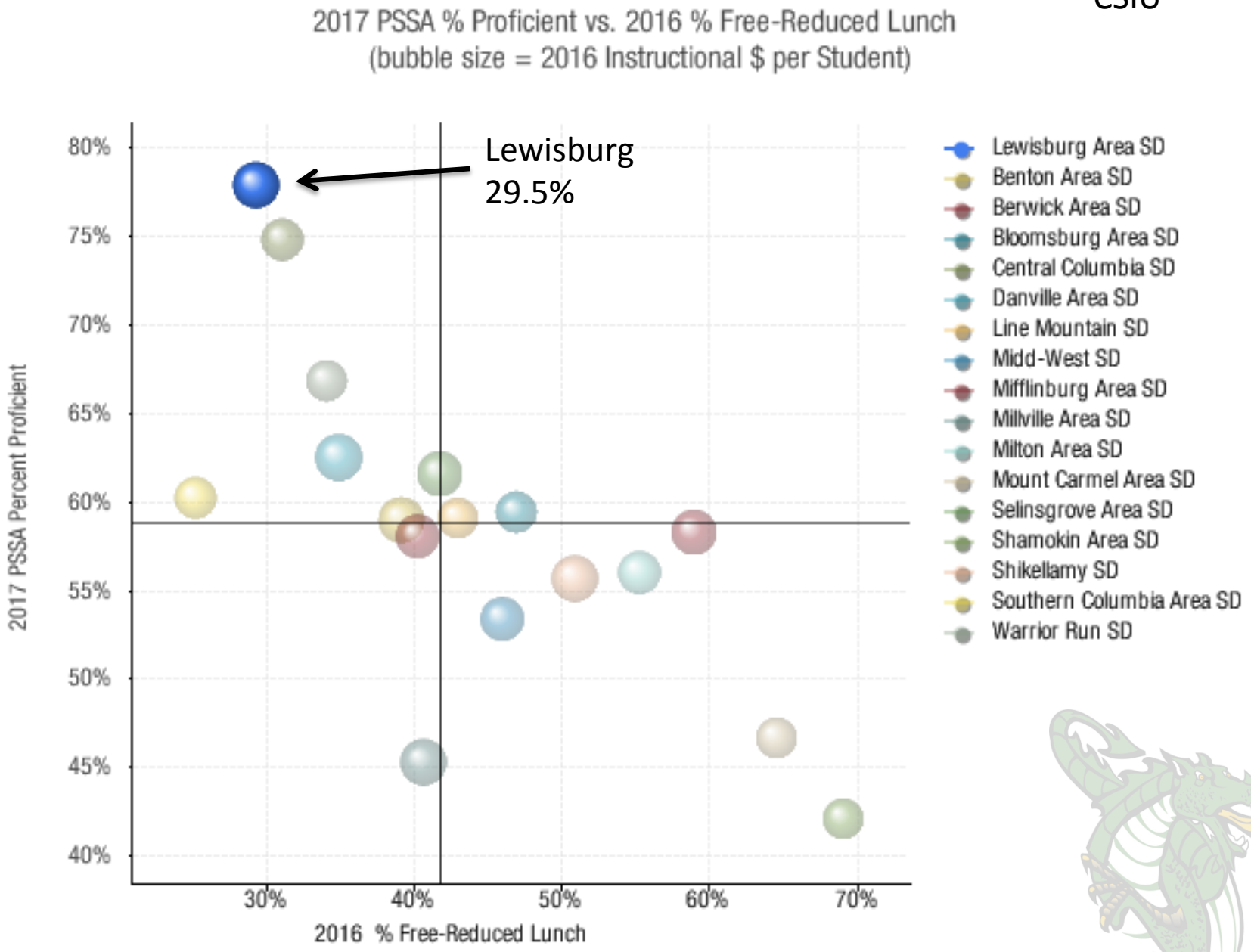
5th	73%	78%	71%	84%	84%	81%
6th	71%	78%	74%	72%	81%	77%
7th	68%	64%	73%	78%	80%	82%
8th	61%	71%	64%	77%	78%	84%

"New PSSA" aligned to PA Core introduced in 2016

PA - All


2017 PSSA % Proficient vs. 2016 % Free-Reduced Lunch
(bubble size = 2016 Instructional $ per Student)
Lewisburg
29.5%
24.3 – 34.5%
2017 PSSA Percent Proficient
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
0%
50%
100%
2016 % Free-Reduced Lunch
Lewisburg Area SD
21st Century Cyber CS
Abington Heights SD
Abington SD
Achievement House CS
Ad Prima CS
Agora Cyber CS
Albert Gallatin Area SD
Aliquippa SD
Allegheny-Clarion Valley SD
Allegheny Valley SD
Allentown City SD
Alliance for Progress CS
Altoona Area SD
Ambridge Area SD
Annville-Cleona SD
Antietam SD
Antonia Pantoja Community Char...
Apollo-Ridge SD
Armstrong SD
Arts Academy CS
Arts Academy Elementary Charte...
ASPIRA Bilingual Cyber Charter...

CSIU


2017 PSSA % Proficient vs. 2016 % Free-Reduced Lunch
(bubble size = 2016 Instructional $ per Student)
Lewisburg
29.5%
2017 PSSA Percent Proficient
80%
75%
70%
65%
60%
55%
50%
45%
40%
30%
40%
50%
60%
70%
2016 % Free-Reduced Lunch
Lewisburg Area SD
Benton Area SD
Berwick Area SD
Bloomsburg Area SD
Central Columbia SD
Danville Area SD
Line Mountain SD
Midd-West SD
Mifflinburg Area SD
Millville Area SD
Milton Area SD
Mount Carmel Area SD
Selinsgrove Area SD
Shamokin Area SD
Shikellamy SD
Southern Columbia Area SD
Warrior Run SD


PENNSYLVANIA
KEYSTONE EXAMS

Keystone Exams – State Assessment/Federal Accountability

Percent Advanced/Proficient by Grade 11

	Class of 2017	Class of 2018	Class of 2019
Algebra 1	79.2%	88.5%	91.1%
CSIU/PA	47%/68%	44%/66%	
Biology	76.0%	71.4%	75.6%
CSIU/PA	55%/63%	53%	64%
Literature	84.5%	97.0%	89.4%
CSIU/PA	66%/77%	53%/72%	

Keystone Exams – State Assessment/Federal Accountability

Spring 2017

Algebra 1 n=77

	All	8th	9th	10th	11th
Below	10	0	0	5	5
Basic	25	0	5	19	1
Proficient	14	0	6	7	1
Advanced	28	23	2	3	0

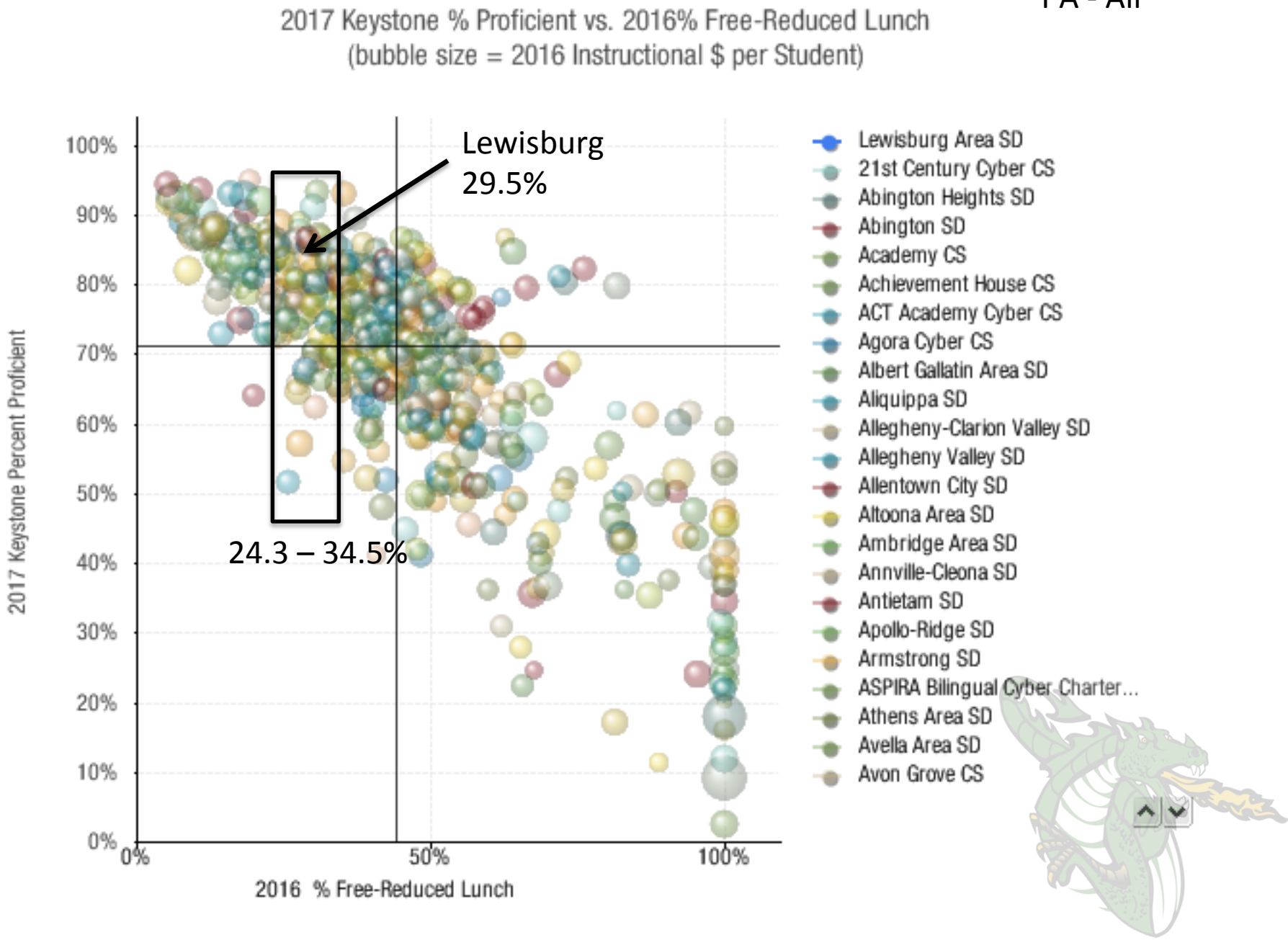
Biology n=184

	All	9th	10th	11th
Below	22	0	12	10
Basic	52	1	33	18
Proficient	62	1	60	1
Advanced	48	0	48	0

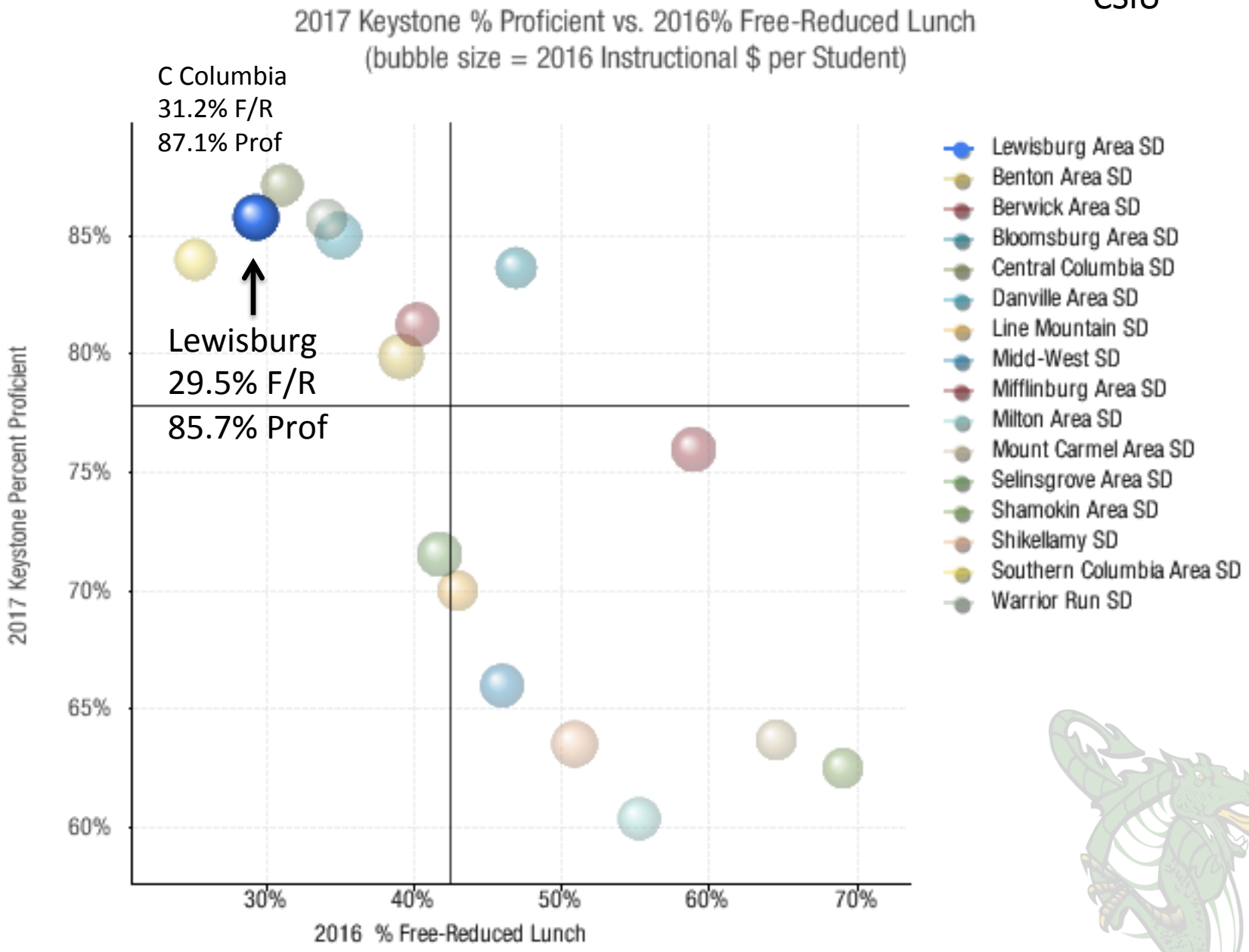
Literature n=173

	All	10th	11th
Below	18	6	12
Basic	29	25	4
Proficient	96	93	3
Advanced	30	30	0

PA - All


2017 Keystone % Proficient vs. 2016% Free-Reduced Lunch
(bubble size = 2016 Instructional $ per Student)
Lewisburg
29.5%
24.3 – 34.5%
2017 Keystone Percent Proficient
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
0%
50%
100%
2016 % Free-Reduced Lunch
Lewisburg Area SD
21st Century Cyber CS
Abington Heights SD
Abington SD
Academy CS
Achievement House CS
ACT Academy Cyber CS
Agora Cyber CS
Albert Gallatin Area SD
Aliquippa SD
Allegheny-Clarion Valley SD
Allegheny Valley SD
Allentown City SD
Altoona Area SD
Ambridge Area SD
Annville-Cleona SD
Antietam SD
Apollo-Ridge SD
Armstrong SD
ASPIRA Bilingual Cyber Charter...
Athens Area SD
Avella Area SD
Avon Grove CS

CSIU


2017 Keystone % Proficient vs. 2016% Free-Reduced Lunch
(bubble size = 2016 Instructional $ per Student)
C Columbia
31.2% F/R
87.1% Prof
Lewisburg
29.5% F/R
85.7% Prof
2017 Keystone Percent Proficient
85%
80%
75%
70%
65%
60%
30%
40%
50%
60%
70%
2016 % Free-Reduced Lunch
Lewisburg Area SD
Benton Area SD
Berwick Area SD
Bloomsburg Area SD
Central Columbia SD
Danville Area SD
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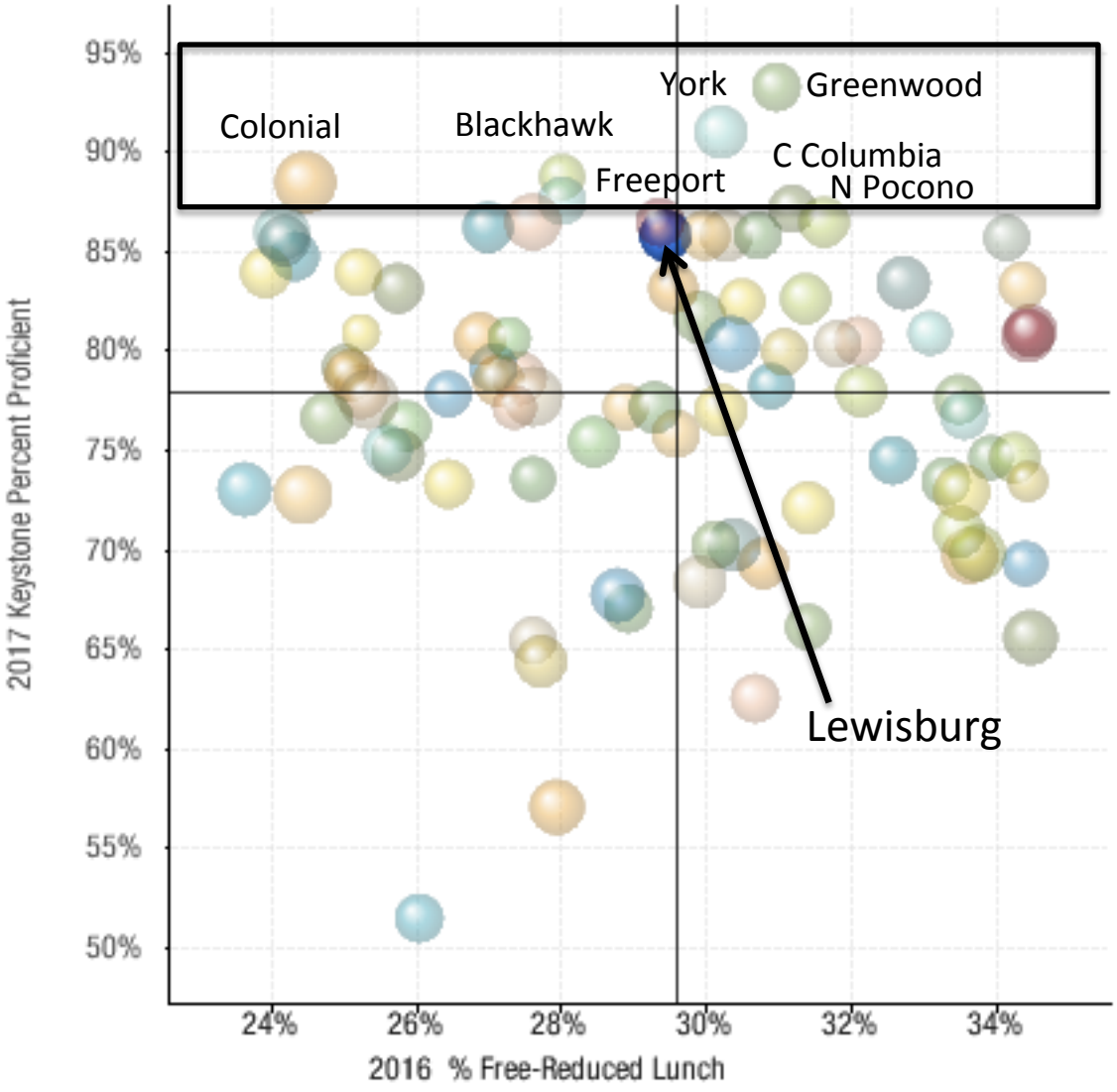
Midd-West SD
Mifflinburg Area SD
Milton Area SD
Mount Carmel Area SD
Selinsgrove Area SD
Shamokin Area SD
Shikellamy SD
Southern Columbia Area SD
Warrior Run SD

24-34% FRPL



	Free/ Reduced	%Prof	Inst $/ Student
Lewisburg	29.5	85.7	10,077
Colonial	24.6	88.4	13,992
Blackhawk	28.1	88.7	7,872
Freeport	28.0	87.5	8,694
York	30.2	90.1	10,408
Greenwood	31.0	93.2	8,452
C Columbia	31.2	87.1	8,545
N Pocono	31.6	86.4	9,497


PA School
Performance
Profile

School Performance Profile (SPP)
Final Year of use before implementation of the "Dashboard"

	2012-13	2013-14	2014-15	2015-16	2016-17
Kelly	91.1	94.7	N/A	82.5	83.1
Linntown	92.0	89.4	N/A	75.4	81.3
Eichhorn MS	86.4	94.8	N/A	78.3	77.7
LAHS	77.8	78.7	78.9	78.8	79.0

Components used to calculate Building Level SPP include:

- **Academic Achievement (40%)**
- **Closing the Achievement Gap – All Groups (5%)**
- **Closing the Achievement Gap – Historically Underperforming Students (5%)**
- **Indicators of Academic Growth – PVAAS (40%)**
- **Other Academic Indicators (10%)**
- **Extra Credit Points for Advanced Achievement (7pts.)**

School Performance Profile (SPP)
Final Year of use before implementation of the "Dashboard"

	2012-13	2013-14	2014-15	2015-16	2016-17
Kelly	91.1	94.7	N/A	82.5	83.1
Linntown	92.0	89.4	N/A	75.4	81.3
Eichhorn MS	86.4	94.8	N/A	78.3	77.7
LAHS	77.8	78.7	78.9	78.8	79.0

Components NOT used to calculate Building Level SPP include:

- **Previous Title I Elementary School of Distinction 2 years in a row**
- **Camp Invention Sponsor**
- **Best Community for Music Education (NAMM Foundation) 7 years running**
- **2-Time Defending Boys' Soccer State Champions**
- **Donald H. Eichhorn Middle School – National Blue Ribbon School Recipient**
- **>100 students involved in the production of the Fall Play**

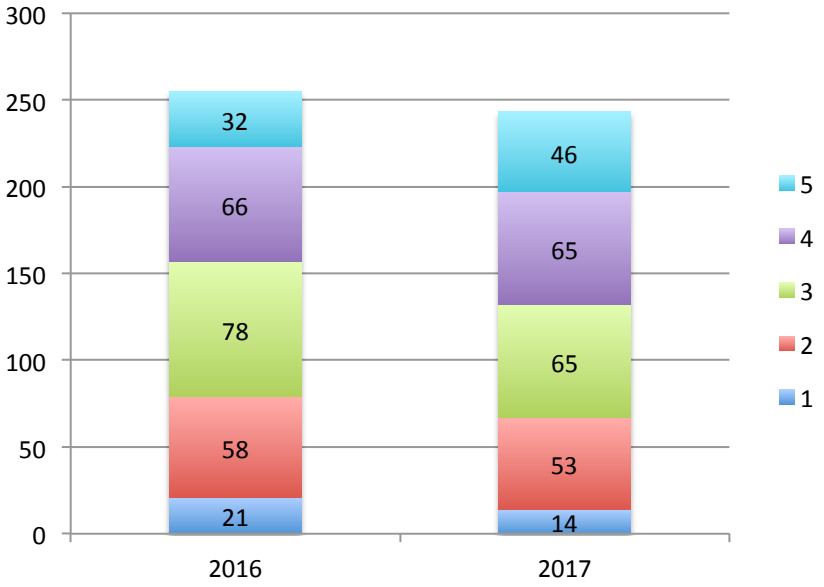
AP®

CollegeBoard

Advanced Placement Program

Students self-select whether or not to take the AP Test for each AP course they complete

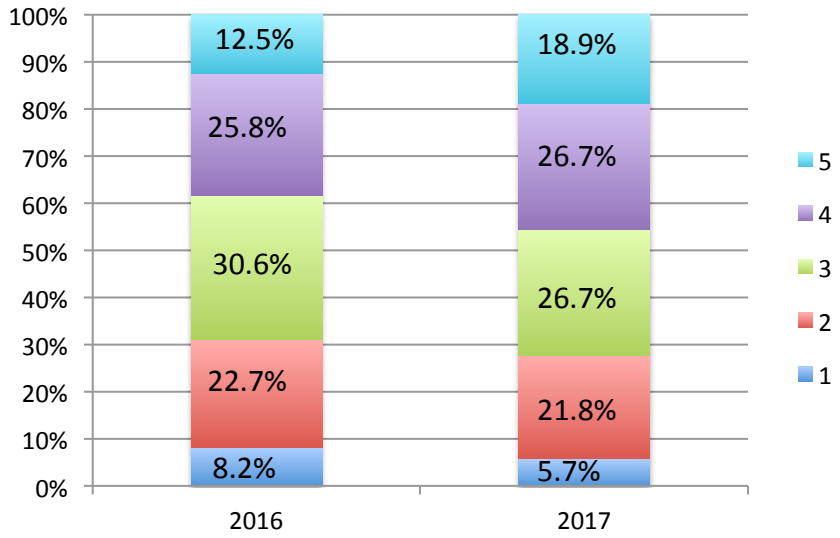
Number of AP Exams



146 students
255 exams

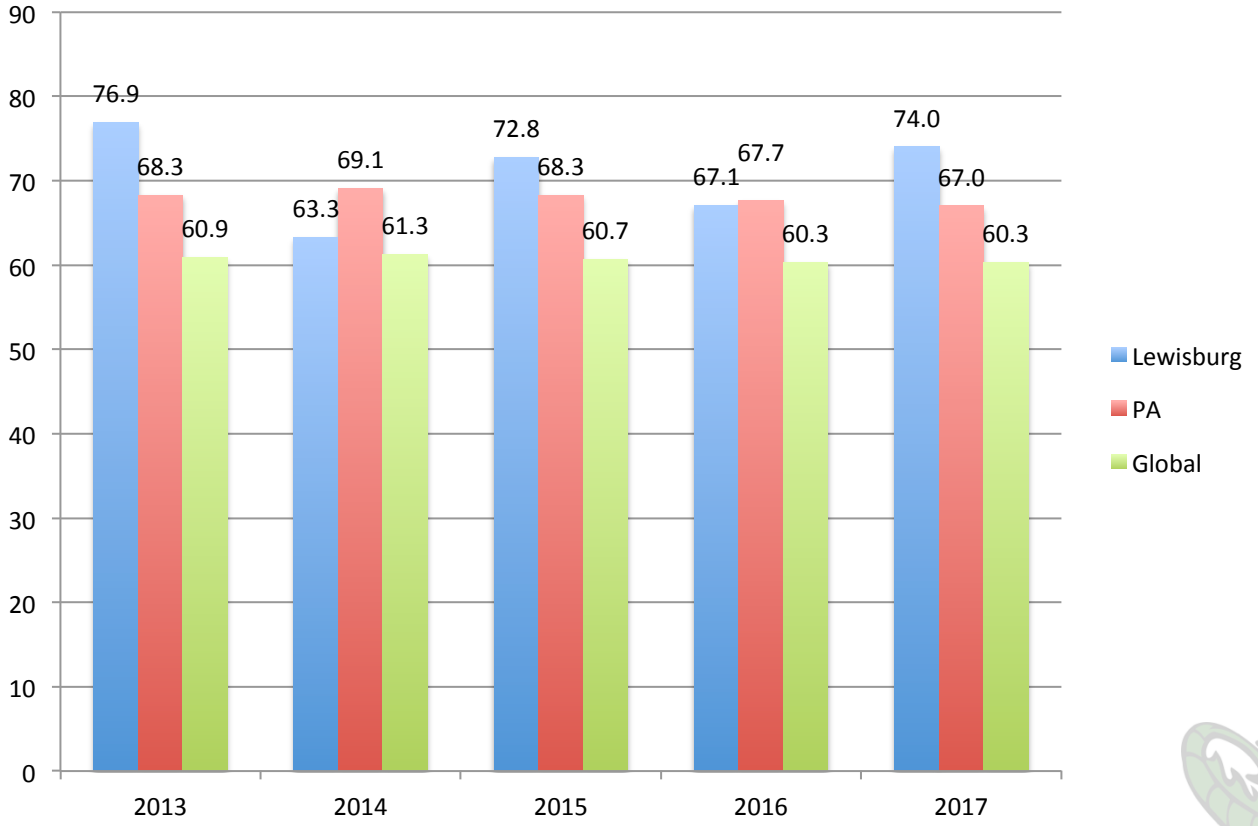
146 students
243 exams

Percentage of Total AP Exams



Score

% of Total AP Students with Scores 3+



“Post-Secondary” Credit Experiences

SUN Tech

2016-17	8
2017-18	27

Bucknell

2016-17	4 (Fall)	5 (Winter)	6 (Summer)
2017-18	6 (Fall)		

Bloomsburg University ACE (Advanced College Experience)

2016-17	6
2017-18	15

Bloomsburg University Education Magnet Program (STEM)

2016-17	
2017-18	3 (new this year)

CollegeBoard SAT

connect to college success™

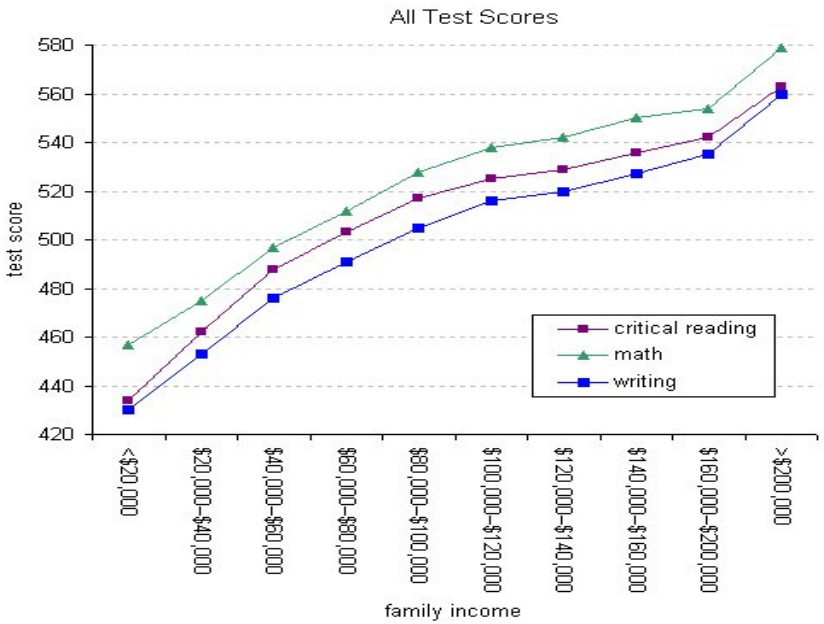
What Do SAT Scores Measure? IQ? Income?

Samantha Lindsay, (blog.prepscholar.com 2015)

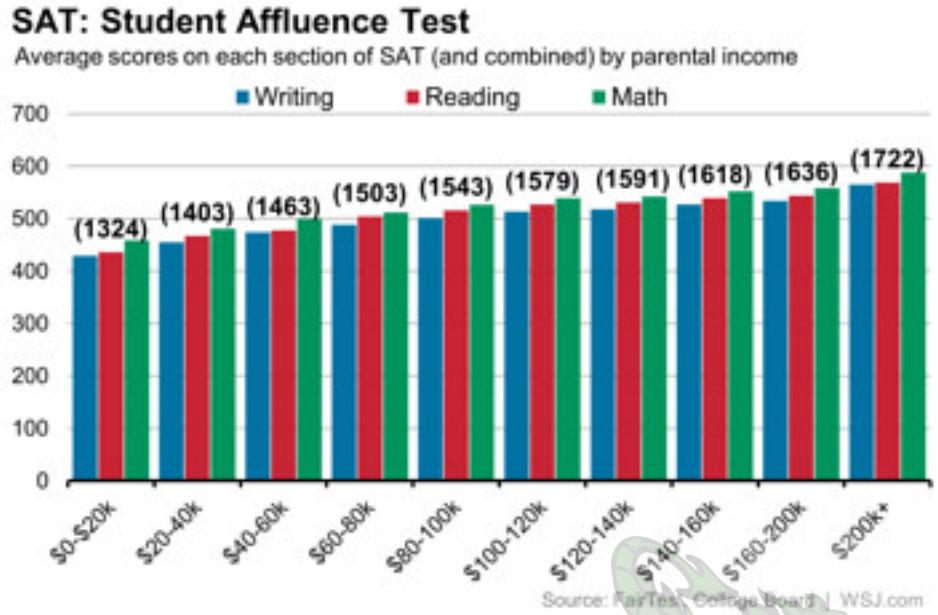
"…, you could argue that since students have the ability to prep for the SAT, it's a better measure of intelligence than traditional IQ tests. **The score is a result of innate intelligence *and* perseverance.** Two people can get the same score while possessing different amounts of each quality. If we're talking about innate intelligence alone, the SAT doesn't necessarily measure accurately. If we're talking about a combination of innate intelligence and the determination that allows students to succeed in school, it may be a better metric."

Correlation between SAT Scores and Family Income

New York Times – August 27, 2009



Wall St. Journal – October 7, 2014



Correlation between SAT Scores and Family Education

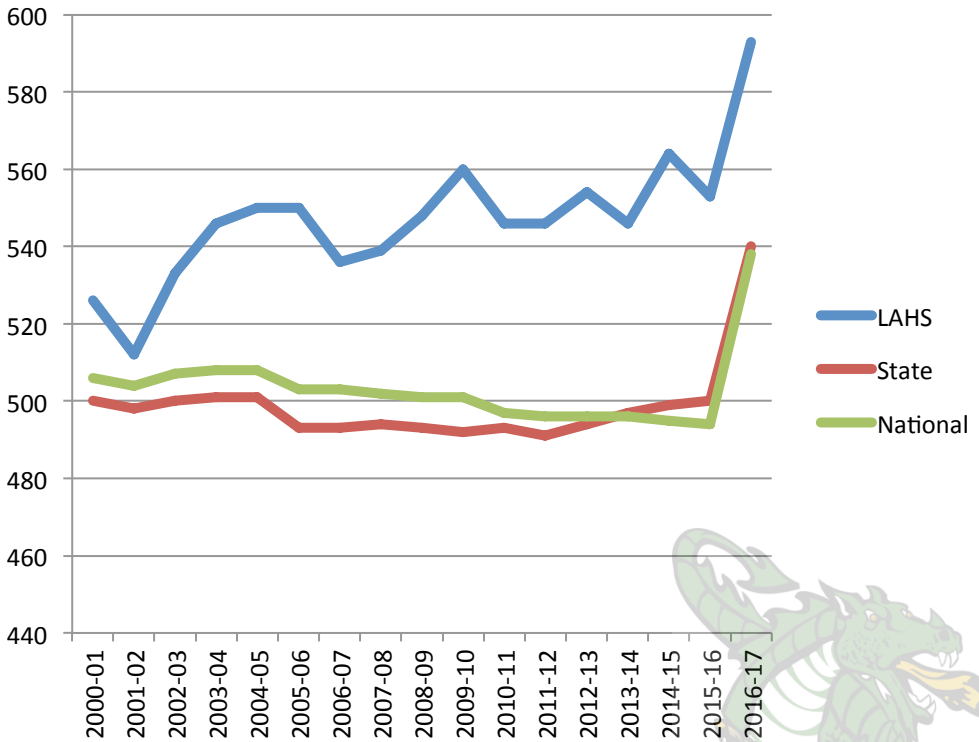
Fair Test, National Center for Fair & Open Testing

	English (R/W)	Math	Total
No HS Diploma	472	472	944
HS Diploma	507	497	1003
Associate Degree	525	511	1036
Bachelor's Degree	562	556	1118
Graduate Degree	591	586	1177

"The SAT has undergone its biggest change in 30 years. The New SAT made its debut in March 2016 and impacts students in the class of 2017 or younger" – The Princeton Review (national average 533 V/527 M)

VERBAL

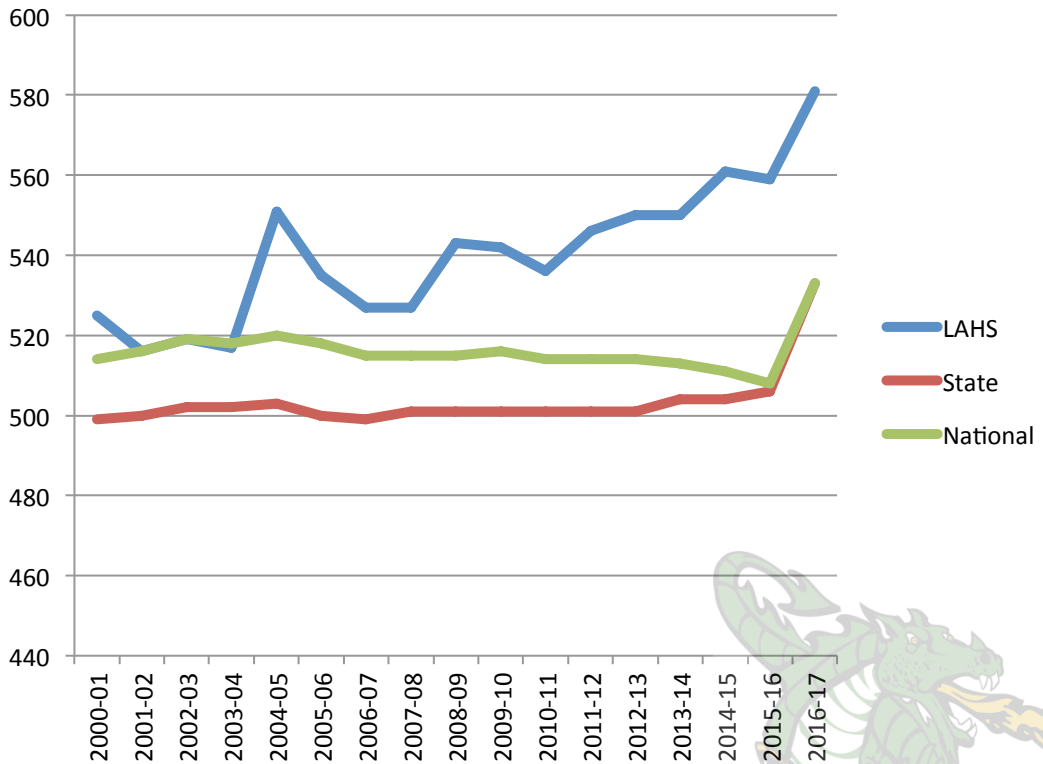
	LAHS	State	National
2000-01	526	500	506
2001-02	512	498	504
2002-03	533	500	507
2003-04	546	501	508
2004-05	550	501	508
2005-06	550	493	503
2006-07	536	493	503
2007-08	539	494	502
2008-09	548	493	501
2009-10	560	492	501
2010-11	546	493	497
2011-12	546	491	496
2012-13	554	494	496
2013-14	546	497	496
2014-15	564	499	495
2015-16	553	500	494
2016-17	593	540	538



"The SAT has undergone its biggest change in 30 years. The New SAT made its debut in March 2016 and impacts students in the class of 2017 or younger" – The Princeton Review (national average 533 V/527 M)

MATH

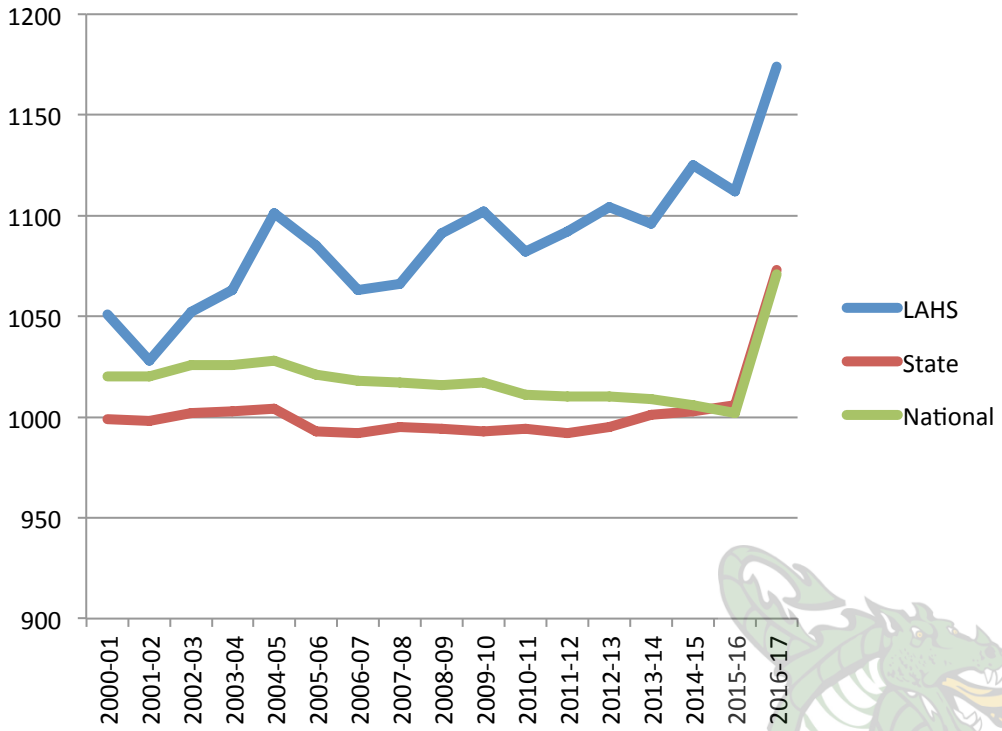
	LAHS	State	National
2000-01	525	499	514
2001-02	516	500	516
2002-03	519	502	519
2003-04	517	502	518
2004-05	551	503	520
2005-06	535	500	518
2006-07	527	499	515
2007-08	527	501	515
2008-09	543	501	515
2009-10	542	501	516
2010-11	536	501	514
2011-12	546	501	514
2012-13	550	501	514
2013-14	550	504	513
2014-15	561	504	511
2015-16	559	506	508
2016-17	581	533	533



"The SAT has undergone its biggest change in 30 years. The New SAT made its debut in March 2016 and impacts students in the class of 2017 or younger" – The Princeton Review (national average 1060)

COMBINED

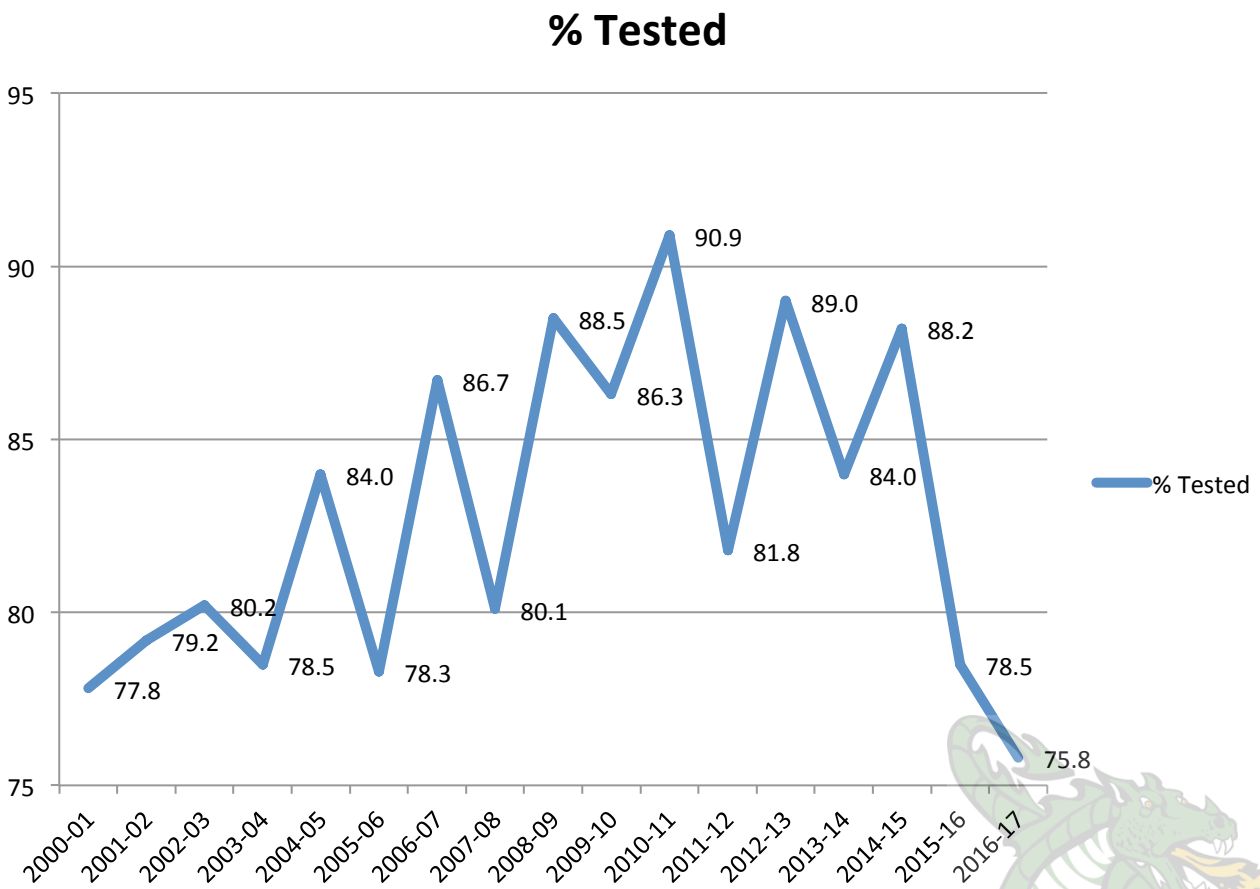
	LAHS	State	National
2000-01	1051	999	1020
2001-02	1028	998	1020
2002-03	1052	1002	1026
2003-04	1063	1003	1026
2004-05	1101	1004	1028
2005-06	1085	993	1021
2006-07	1063	992	1018
2007-08	1066	995	1017
2008-09	1091	994	1016
2009-10	1102	993	1017
2010-11	1082	994	1011
2011-12	1092	992	1010
2012-13	1104	995	1010
2013-14	1096	1001	1009
2014-15	1125	1003	1006
2015-16	1112	1006	1002
2016-17	1174	1073	1071



SAT – Percentage of Students Tested (17 year average = 82.8%)

TESTED

	% Tested
2000-01	77.8
2001-02	79.2
2002-03	80.2
2003-04	78.5
2004-05	84.0
2005-06	78.3
2006-07	86.7
2007-08	80.1
2008-09	88.5
2009-10	86.3
2010-11	90.9
2011-12	81.8
2012-13	89.0
2013-14	84.0
2014-15	88.2
2015-16	78.5
2016-17	75.8



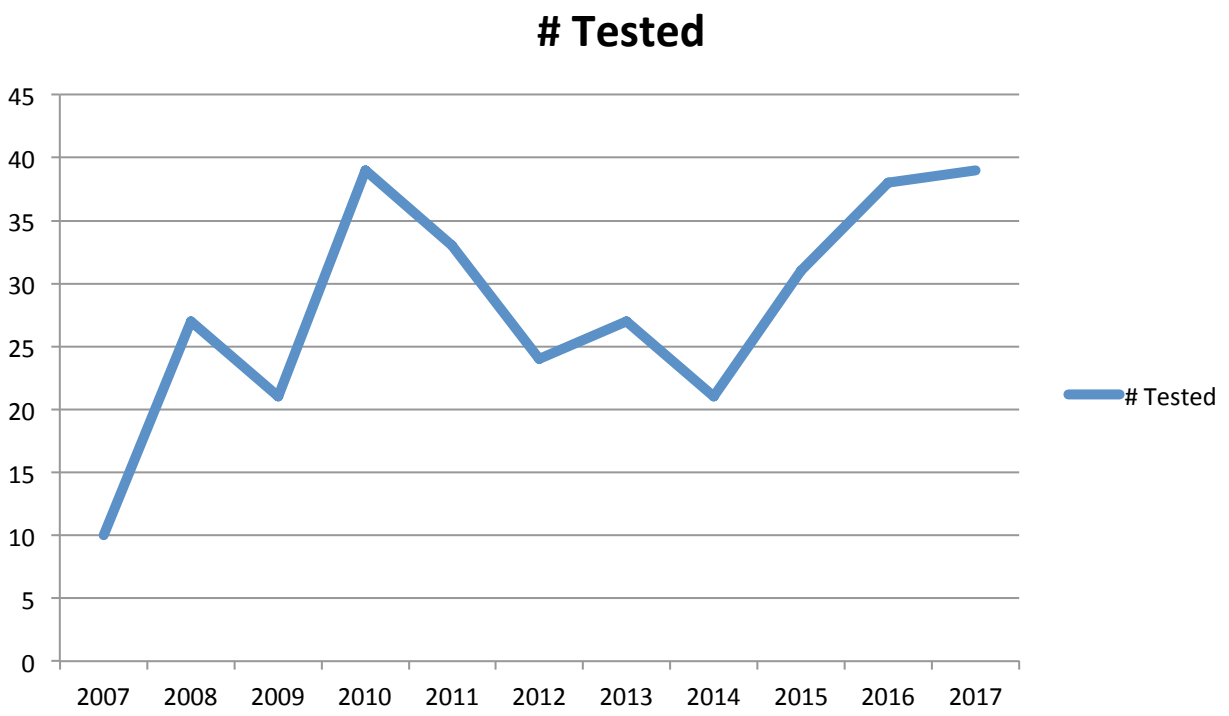
ACT®

What Do ACT Scores Measure? IQ? Income?

Samantha Lindsay, (blog.prepscholar.com 2015)

"The intent of the ACT from the beginning was not to measure intelligence as a general quality but to measure what students learned in school and gauge their college and career readiness (a model that the College Board has tried to emulate on the latest version of the SAT). **It's less of a measure of intelligence than it is a measure of college preparedness, and even then it doesn't give you the entire picture.** While innate intelligence certainly plays a role, scores are also affected by many other factors that don't have much to do with a person's overall cognitive abilities. "

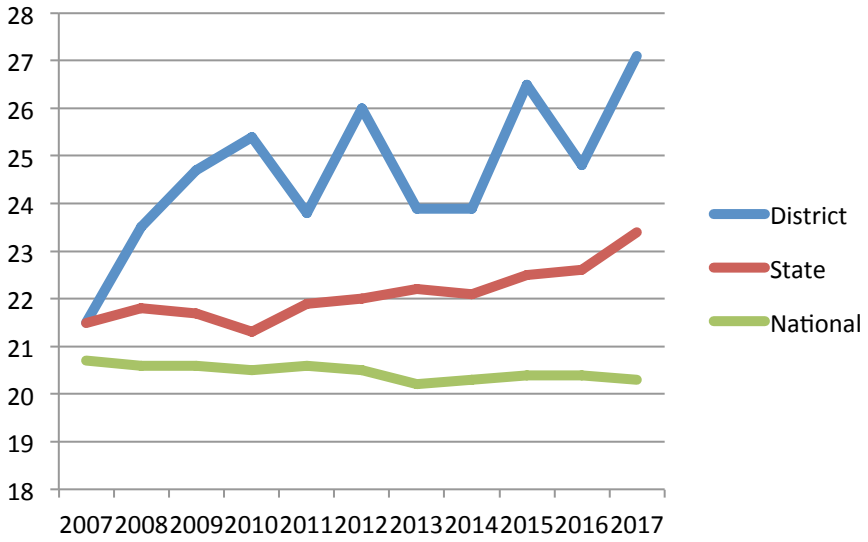
ACT



Traditionally, the lower number of students taking the ACT as compared to the SAT can be attributed to the ACT being used more often by schools “west” of PA – today, nearly all colleges and universities will accept either.

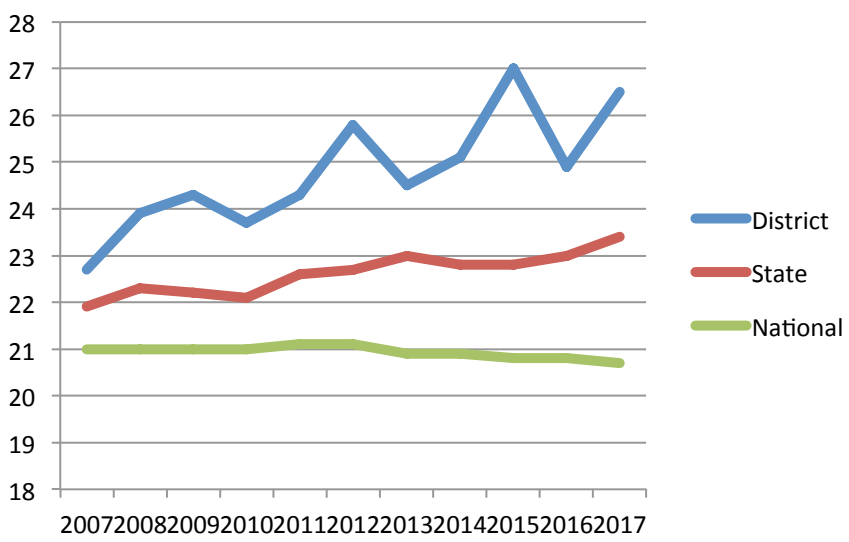
ACT

English



	District	State	National
2007	21.5	21.5	20.7
2008	23.5	21.8	20.6
2009	24.7	21.7	20.6
2010	25.4	21.3	20.5
2011	23.8	21.9	20.6
2012	26.0	22.0	20.5
2013	23.9	22.2	20.2
2014	23.9	22.1	20.3
2015	26.5	22.5	20.4
2016	24.8	22.6	20.4
2017	27.1	23.4	20.3

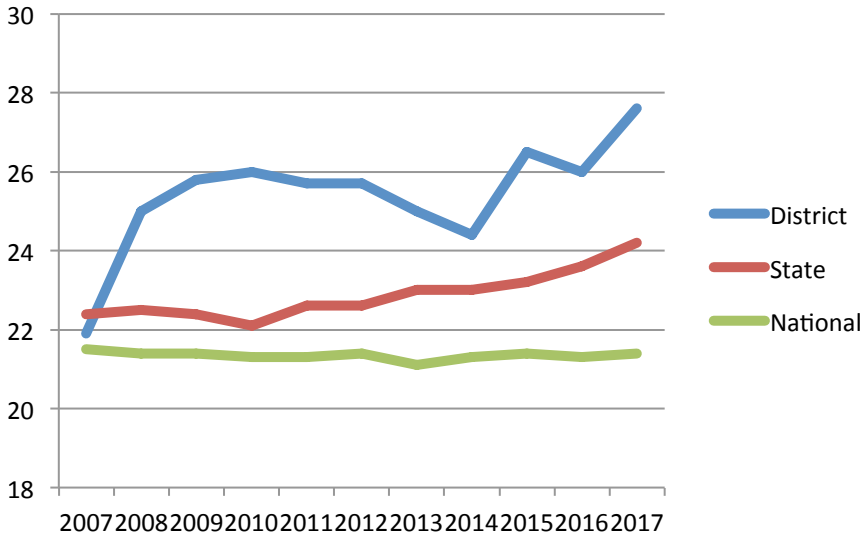
Math



	District	State	National
2007	22.7	21.9	21.0
2008	23.9	22.3	21.0
2009	24.3	22.2	21.0
2010	23.7	22.1	21.0
2011	24.3	22.6	21.1
2012	25.8	22.7	21.1
2013	24.5	23.0	20.9
2014	25.1	22.8	20.9
2015	27.0	22.8	20.8
2016	24.9	23.0	20.8
2017	26.5	23.4	20.7

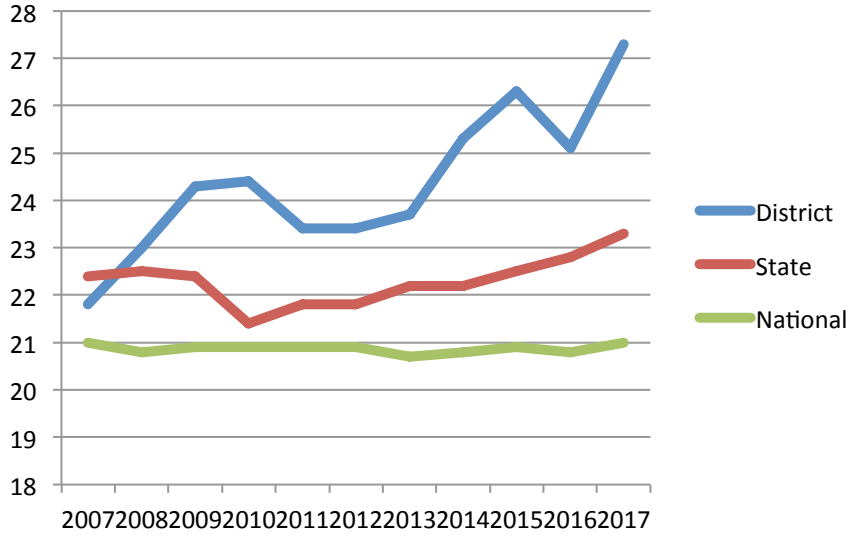
ACT

Reading



	District	State	National
2007	21.9	22.4	21.5
2008	25.0	22.5	21.4
2009	25.8	22.4	21.4
2010	26.0	22.1	21.3
2011	25.7	22.6	21.3
2012	25.7	22.6	21.4
2013	25.0	23.0	21.1
2014	24.4	23.0	21.3
2015	26.5	23.2	21.4
2016	26.0	23.6	21.3
2017	27.6	24.2	21.4

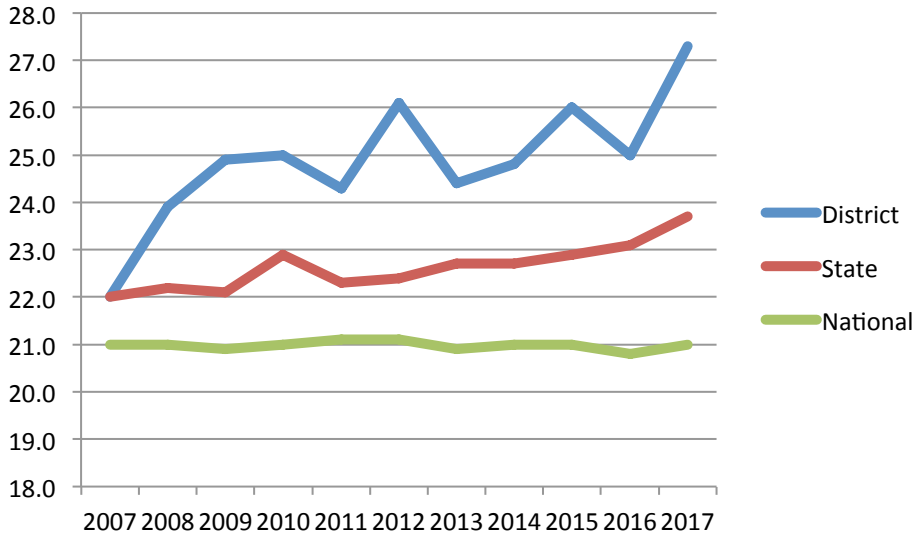
Science



	District	State	National
2007	21.8	22.4	21.0
2008	23.0	22.5	20.8
2009	24.3	22.4	20.9
2010	24.4	21.4	20.9
2011	23.4	21.8	20.9
2012	23.4	21.8	20.9
2013	23.7	22.2	20.7
2014	25.3	22.2	20.8
2015	26.3	22.5	20.9
2016	25.1	22.8	20.8
2017	27.3	23.3	21.0

ACT

Composite



	District	State	National
2007	22.0	22.0	21.0
2008	23.9	22.2	21.0
2009	24.9	22.1	20.9
2010	25.0	22.9	21.0
2011	24.3	22.3	21.1
2012	26.1	22.4	21.1
2013	24.4	22.7	20.9
2014	24.8	22.7	21.0
2015	26.0	22.9	21.0
2016	25.0	23.1	20.8
2017	27.3	23.7	21.0

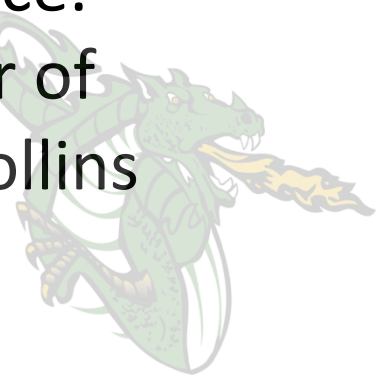
Summary

We're Good …

No, We're Really Good …

But, We Aspire to be Great

"Greatness is not a function of circumstance. Greatness, it turns out, is largely a matter of conscious choice and discipline." – Jim Collins



Conscious Choices?

Continue to refine our focus by changing the conversation from “Historically Underperforming Groups” to “Currently Underperforming Individuals”

Replace the summative Terra Nova testing K-2 with formative Star assessment

- Shorter testing at regular intervals
- Interventions implemented within the current grade level
- Can be used as a Growth measure
- Star currently used in different capacities in grades 3 - 8

Take advantage of additional Keystone administration opportunities

- Summer programming aimed at the summer administration of the test closer in proximity to the taking of the specific course
- Senior testing? – how many times is too many?

Conscious Choices?

Require a post-secondary credit granting experience

- SUN Tech
- Advanced Placement classes
- Early college classes
  - Reciprocal Agreements – courses taught on site
  - Post-Secondary Programs – courses taught off site
    - Bucknell, Bloomsburg, dual enrollment (on-line)

Pursue funding to require all juniors take the SAT

- Pro – students who may believe they are not capable of post-secondary study, can have the credential/verification that they are
- Con – district average score will decrease as participation rate goes from a voluntary 76% to a required 100%