



# Historical Perspective on PVAAS Growth Levels

Ephrata Area School District  
November 19, 2018

Pennsylvania Value-Added Assessment System (PVAAS) is a statistical analysis of PSSA (Grade 4-8) and Keystone assessment data, and provides districts and their schools with growth data. This lens of measuring student learning provides educators with valuable information to ensure they are meeting the academic needs of cohorts of students.

## Math: Growth Measure (Standard Error)

Grade Level	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
4 <sup>th</sup>	6.3 (.8)	5.5 (.8)	-1.9 (.7)	-0.5 (.7)	1.7 (.7)	1.1 (.6)	-0.9 (.7)	-4.1 (.6)
5 <sup>th</sup>	-4.4 (.7)	-6.2 (.7)	1.8 (.7)	0.1 (.7)	3.0 (.6)	0.2 (.6)	-0.3 (.6)	-1.7 (.6)
6 <sup>th</sup>	2.3 (.6)	-0.7 (.6)	-0.6 (.6)	-6.8 (.6)	-1.3 (.6)	-3.4 (.6)	-1.1 (.6)	-2.4 (.6)
7 <sup>th</sup>	8.5 (.6)	5.9 (.6)	9.3 (.6)	2.0 (.6)	5.1 (.6)	-0.3 (.6)	-1.8 (.6)	-1.7 (.6)
8 <sup>th</sup>	-3.5 (.6)	-4.9 (.6)	-0.5 (.6)	-0.6 (.6)	0.9 (.6)	2.0 (.6)	-0.6 (.6)	1.6 (.6)
MS Algebra	Not Assessed		-1.1 (1.6)	26.5 (3.4)	26.0 (3.4)	19.7 (3.9)	28.5 (3.5)	23.9 (3.2)
HS Algebra	35.1 (8.1)	23.8 (8.2)	8.0 (1.3)*	16.2 (1.7)	21.8 (1.4)	17.5 (1.7)	18.7 (1.5)	15.8 (1.5)

\* In 2013, students did not take a PSSA test in 11<sup>th</sup> grade. This growth calculation is based on growth on the Algebra 1 Keystone Exam which is taken by any student who completed the Algebra 1 course last year and any student who was in 11<sup>th</sup> grade and did not previously take the Algebra 1 Keystone Exam.

## Reading/English Language Arts: Growth Measure (Standard Error)

Grade Level	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
4 <sup>th</sup>	0.3 (.8)	0.8 (.8)	1.5 (.8)	-1.7 (.8)	3.2 (.7)	0.5 (.7)	-0.3 (.7)	-0.6 (.7)
5 <sup>th</sup>	-4.8 (.8)	-3.5 (.8)	-0.5 (.8)	-0.7 (.8)	1.2 (.7)	-2.5 (.7)	-4.8 (.7)	-2.7 (.7)
6 <sup>th</sup>	5.9 (.8)	0.8 (.8)	0.1 (.8)	-1.6 (.7)	-2.7 (.7)	-0.2 (.7)	-0.3 (.7)	-1.1 (.7)
7 <sup>th</sup>	-1.1 (.8)	-4.8 (.8)	1.1 (.8)	2.6 (.7)	1.1 (.7)	-3.8 (.7)	-5.3 (.7)	-1.6 (.7)
8 <sup>th</sup>	2.7 (.7)	1.4 (.7)	1.8 (.7)	-3.0 (.7)	0.6 (.7)	-0.1 (.7)	-0.3 (.7)	-0.5 (.7)
HS Literature	14.9 (8.7)	-19.8 (5.1)	3.8 (2.1)*	6.2 (1.7)	5.9 (1.6)	0.5 (1.5)	0.4 (1.5)	-1.4 (1.6)

\* In 2013, students did not take a PSSA test in 11<sup>th</sup> grade. This growth calculation is based on growth on the Literature Keystone Exam which is taken by any student who completed the 10<sup>th</sup> Grade English course last year and any student who was in 11<sup>th</sup> grade and did not previously take the Literature Keystone Exam.

**Science:** *Growth Measure (Standard Error)*

Grade Level	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
4 <sup>th</sup>	8.0 (.6)	18.3 (.7)	46.0 (.7)	39.0 (6.6)	14.6 (5.5)	2.6 (5.7)
8 <sup>th</sup>	8.7 (.7)	-0.4 (.6)	-3.6 (.6)	12.9 (6.3)	-27.0 (5.3)	-8.0 (5.4)
<b>Biology</b>	-3.0 (1.5)	25.2 (1.7)	10.8 (1.6)	3.6 (1.5)	-2.3 (1.5)	-1.0 (1.6)

DB	Significant evidence that the district exceeded the standard for PA Academic Growth
LB	Moderate evidence that the district exceeded the standard for PA Academic Growth
G	Evidence that the district met the standard for PA Academic Growth
Y	Moderate evidence that the district did not meet the standard for PA Academic Growth
R	Significant evidence that the district did not meet the standard for PA Academic Growth