State Assessment Results Report 2017

Methacton School District

Presented November 2017

Overview

➤Pennsylvania System of School Assessment (PSSA) Results

➤Keystone Exam Results

➤Pennsylvania Value-Added Assessment System (PVAAS)

➤School Performance Profile (SPP)

➤Strengths & Needs

➤Looking Ahead

Assessments & Measures

Assessments:

➢ <u>PSSA</u>- based on achievement for a particular year (Grades 3-8)

➢ <u>Keystones</u>- based on achievement; may be taken more than once ("End of course" exam for Algebra I, Biology & Literature)

Measures:

➢ <u>PVAAS</u>- measures students' growth overtime as a cohort, based on achievement progression from one year to the next

➢ <u>SPP</u>- a school's score includes all of the above, as well as closing the achievement gap, and opportunities for extra credit

2017 PSSA Results:
Percent Proficient & Advanced

Grade Level	ELA			Math			Science		
	MSD	County	State	MSD	County	State	MSD	County	State
3	81.1%	77.6%	64.6%	71.2%	67.8%	54.5%	*	*	*
4	78.4%	76.1%	60.9%	63.2%	64.0%	46.6%	89.0%	86.0%	74.5%
5	80.5%	76.5%	59.6%	66.3%	63.4%	43.8%	*	*	*
6	81.1%	77.8%	63.6%	63.9%	55.9%	40.3%	*	*	*
7	78.4%	71.6%	59.5%	62.2%	52.9%	37.8%	*	*	*
8	81.7%	71.2%	58.9%	49.8%	44.5%	32.5%	74.1%	63.6%	52.7%

*Assessment not administered at this grade level
Percentages presented are based on state calculations released in October 2017

MSD Results: 2015-2017

	ELA			Math			Science		
	2015	**2016**	**2017**	**2015**	**2016**	**2017**	**2015**	**2016**	**2017**
3	86.1	79.6	81.1	68.9	73.8	71.2			
4	80.3	78.7	78.4	69.1	75.0	63.2	92.0	94.1	89.0
5	82.4	84.0	80.5	67.1	75.0	63.2			
6	81.1	79.6	81.1	58.3	60.7	63.9			
7	83.1	84.7	78.4	54.5	64.1	62.2			
8	80.4	79.5	81.4	42.4	48.0	49.8	76.9	78.3	74.1
HS	92.9	90.4	84.4	86.2	85.8	79.8	83.2	88.4	78.4

NOTE– 8th grade Algebra I results: 2105-78.4%; 2016-88.8%; 2017- 95.2%

2017 Keystone Results
Percent Proficient & Advanced

Exam	MHS	County	State
Algebra I	79.8%	75.4%	65.6%
Biology	78.4%	76.6%	63.4%
Literature	84.4%	82.4%	72.7%

MHS & County percentages presented are based on state calculations per the 2017 SPP results and reflect scores of current 12th grade students.

Arcola proficient/advanced scores on Algebra I= 95.2%

Achievement & Growth

- **Achievement**
  - Measures a student's performance at one single point in time
  - Highly correlated with students' demographics
  - Compares student performance to PA Core Standards
  - Each year, grade level achievement is reported on a different group of students

- **Growth**
  - Measures a group of students' progress across time; i.e., across years
  - Typically little to no relationship with students' demographics
  - Compares performance of a student group to their own prior performance
  - From year to year, growth is measured on the same group of students

2017 MSD PVAAS Results

- At least one year's growth for **<u>all</u>** students tested in the following areas:
  - Algebra 1 Keystone (8th & HS)
  - Math PSSA (4th, 6th, & 7th)
  - ELA PSSA (7th & 8th)
  - Biology Keystone (HS)
- More than a year's growth overall for Science PSSA in 4th and 8th grades

School Performance Profile Calculations

- 50 percent of the school academic performance score:
  - **Indicators of Academic Achievement**
  - **Indicators of Closing the Achievement Gap for All Students**
  - **Indicators of Closing the Achievement Gap for Historically Underperforming Students**

- 40 percent of the school academic performance score:
  - **Indicators of Academic Growth/PVAAS**

- 10 percent of the school academic performance score is based on:
  - **Other Academic Indicators** (graduation, promotion, and attendance rates)

Schools may earn up to 7 additional points via Extra Credit for Advanced Achievement based upon advanced performance on state and industry assessments, and for students earning 3 or higher on an Advanced Placement exam or 4 or higher on an International Baccalaureate exam.

Closing the Achievement Gap

➢Based on the percentage of proficient and advanced students
- ➢Scores are recorded for "baseline year" in each subject area
  - ➢ Schools with Keystone scores use 2013 as the baseline year
  - ➢ Schools with PSSA scores use 2015 as the baseline year
- ➢Schools have 6 years to "close the achievement gap" by 50%
  - ➢Example:

    A high school with a proficient/advanced total of 80% in 2013, would have to close the gap by 10% by the year 2019.

    The 10% is calculated on a yearly basis, so in each of the 6 years, the school would be expected to increase achievement scores by at least 1.67%.

SPP Scores

Building	2017	2016
Methacton High School	80.6	85.4
Arcola Intermediate School	75.6	74.2
Skyview Upper Elementary School	73.2	68.3
Arrowhead Elementary School	78.7	82.1
Audubon Elementary School	71.0	70.7
Eagleville Elementary School	88.1	75.2
Woodland Elementary School	66.4	72.1
Worcester Elementary School	75.8	81.6

PSSA & Keystone Strengths & Needs
ELA

Strengths:

- Key Ideas & Details in Literature (4th & 5th)

- Connections within and among Informational Text (6th)

- Understanding of Craft & Structure in Literature (7th)

- Understanding of Vocabulary & Figurative Language in Informational Text (8th)

- Reading for Meaning- Non-fiction (HS)

Needs:

- Vocabulary & Figurative Language in Literature (4th & 5th)

- Vocabulary & Figurative Language in Informational Text (6th & 7th)

- Reading for Meaning- Fiction (HS)

PSSA & Keystone Strengths & Needs Math

Strengths:

- Application of skills and analysis across a variety of anchors

- Significant improvement in anchors at every grade level

Needs:

- Numbers & Operations Involving Fractions (4th & 5th)

- Ratio & Proportion (6th)

- Geometric Figures & their Properties (7th)

- Statistics & Probability (8th)

- Inequalities (HS)

Strengths & Needs
Science

Strengths:

- Student growth at all levels (4th, 8th, & HS) & in all schools, according to PVAAS

- Closing the Achievement Gap for all or for Historically Underperforming groups at the high school and two elementary schools

Needs:

- Processes that sustain life and their relationship to energy and natural resources

Actions to Address Needs

- Meet with principals, department chairs and curriculum coordinators to:
  - identify how skills are currently addressed
  - Identify ways to replicate our strengths and improve where needed
- Determine benchmarks for checking progress
- Focus curriculum writing & ensure the writing cycle meets our needs
- Insert professional development where needed

Looking Ahead: Changes to PSSA & Measuring School Success

- One less day for testing for ELA and math PSSA
  - Text Dependent Analysis (TDA) will be worth 25% (previously 19%)
  - Math reporting categories remain the same, with fewer questions in each
  - Science remains at two days, with tests having fewer questions
- PA Future Ready Index
  - Addresses uneven weighting of content areas as in current SPP
  - Incentivizes Career Awareness instruction, beginning at elementary
  - Provides indicators of student success after graduation

MSD 2017 Highlights

- Increased SPP scores and ranking in Montgomery County for Audubon, Eagleville, Arcola, and Skyview

- PSSA scores among the Top 10 in the county for each grade level and subject area, except grade 4 math

- Growth for all students tested in a majority of areas:
  - Significant evidence that the district exceeded the standard for PA Academic Growth in math and science, grades 4-8, and in Algebra I and Biology
  - Growth for a significant number of students in ELA/Literature

- Strengths in ELA regarding informational text

- Academic strength among county and state attributed in part to teachers' and principals' work with data, and corresponding instructional practices

Additional Information

PVAAS & Growth:

For district and school information, and scatterplots, along with general Q&As:

https://pvaas.sas.com/welcome.html?as=c&aj=b

For explanations (non-technical and technical) of methodologies used in PVAAS:

https://drive.google.com/file/d/0B5FAJU-k0YoNZmRTQi1Mbmp1T0E/view

SPP:

http://www.paschoolperformance.org/

PSSA & Keystone Data:

http://www.education.pa.gov/Pages/PSSA-Information.aspx#tab-1

PA Future Ready Index:

http://www.education.pa.gov/Pages/Future-Ready-PA.aspx#tab-1