

# PVAAS Statewide Scatterplots: **SY2021–22**

*PSSA Mathematics* >

*PSSA English Language Arts* >

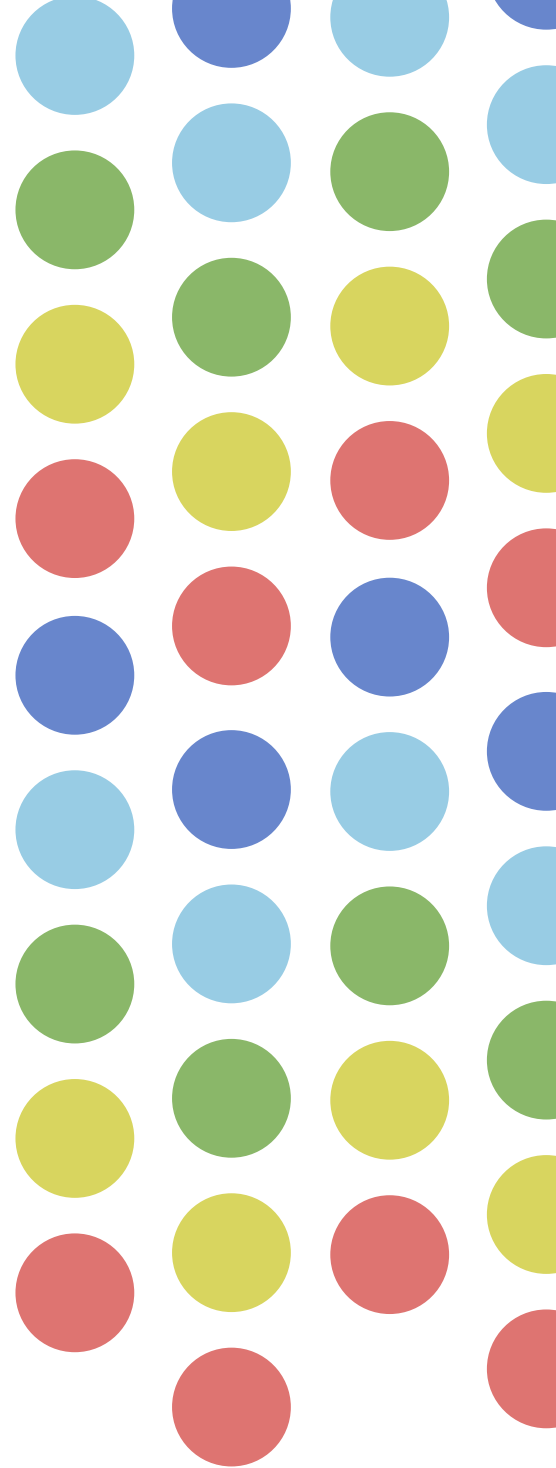
*PSSA Science* >

*Keystone Algebra I* >

*Keystone Literature* >

*Keystone Biology* >

*Last Updated December 2022.*





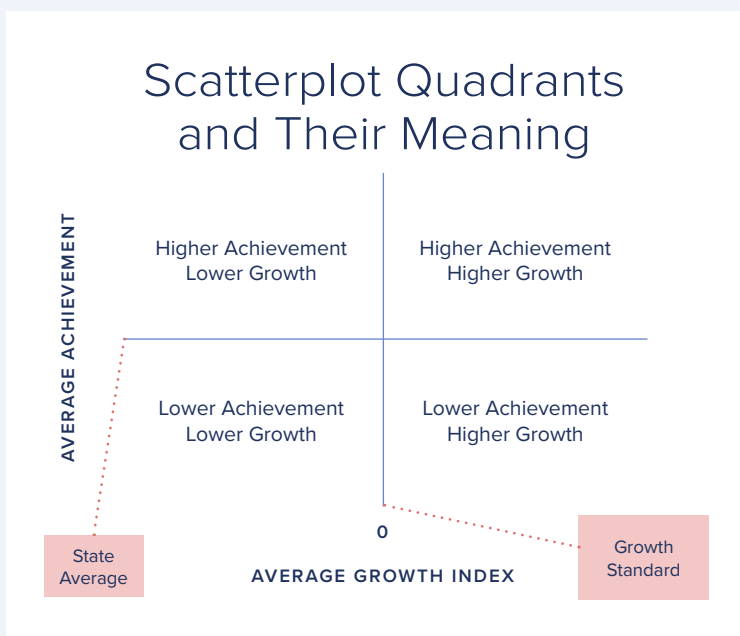
The PVAAS scatterplots visually display **the relationship between growth and achievement data** from the statewide distribution of results for SY2021–22.

### Entering Achievement or Vertical Axis:

- In the PSSA subject areas of English Language Arts and Math, the achievement level is represented in **Normal Curve Equivalent (NCE units)**, where an NCE of 50 equals the state average.
- In the PSSA subject area of Science and the Keystone content areas of Algebra I, Literature, and Biology, the achievement level is represented in **scale score points**.
- In the PSSA subject areas of English Language Arts, Math, and Science, the **Average Growth Index** represents the growth in that grade level and subject area in SY21–22.
- In the **three Keystone content areas**, the Average Growth Index represents the growth of the students in SY21–22.

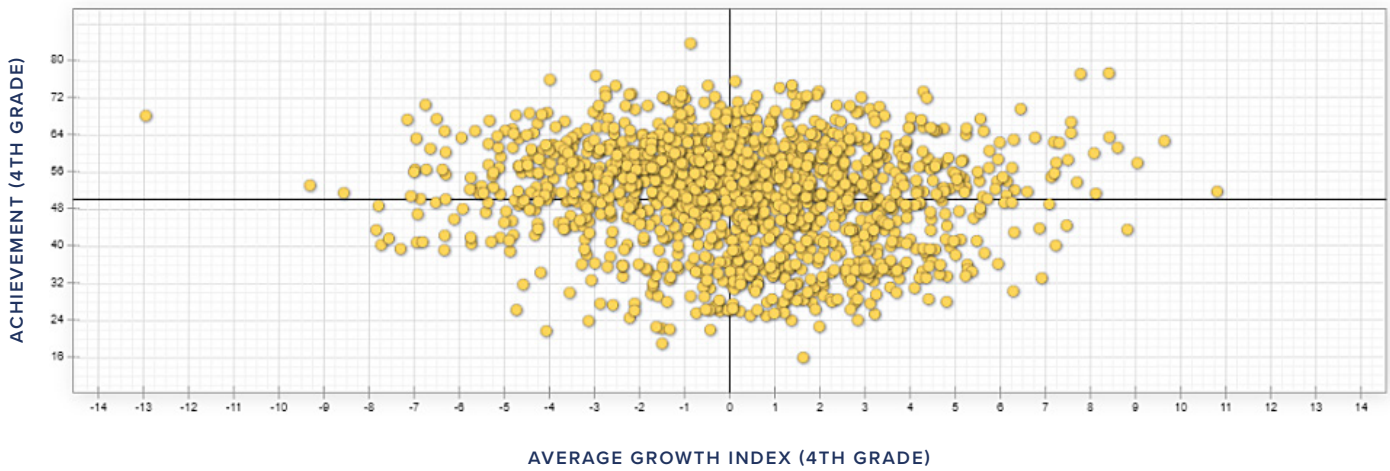
### Additional information:

- **Average Growth Index** – A measure of student progress across the tested grade levels in a school. This index is a value based on the average growth across grade levels and its relationship to the standard error so that comparison among schools is meaningful. It indicates the growth the students have made over time.
- The Average Growth Index is similar to the **Consumer Price Index**, a common scale used to provide comparisons. If the standard error is not accounted for, users might get a skewed picture of the relative effectiveness of different schools.
- **Average Growth Index (AGI):**
  - o If the AGI is **equal to or near zero**, this means the students met the growth standard.
  - o If the AGI is **greater than zero**, this means the students exceeded the growth standard. The greater the AGI, the more evidence we have that the group of students exceeded the growth standard.
  - o If the AGI is **less than zero**, this means the students did not meet the growth standard. The further the AGI is below zero, the more evidence we have that the group of students did not meet the growth standard.
- Each dot in the scatterplot represents a school.



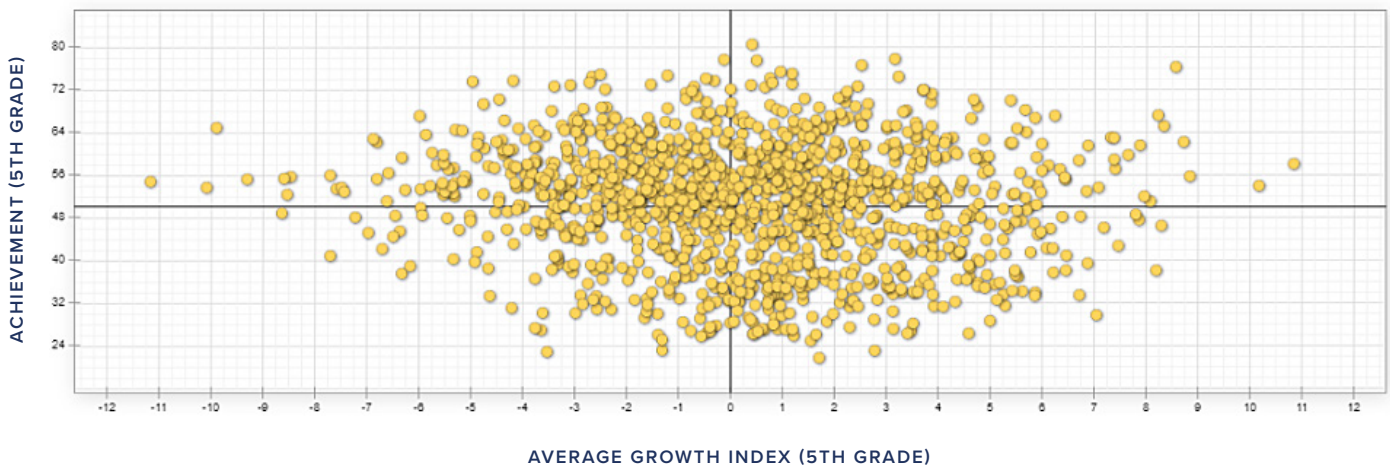
## Grade 4 Mathematics Statewide

School Scatterplot



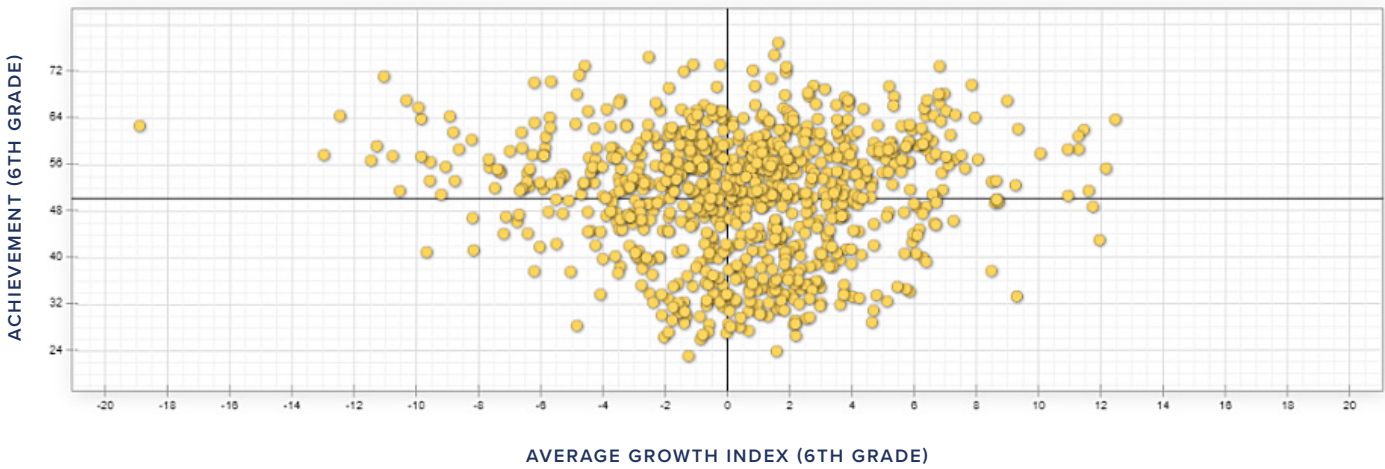
## Grade 5 Mathematics Statewide

School Scatterplot



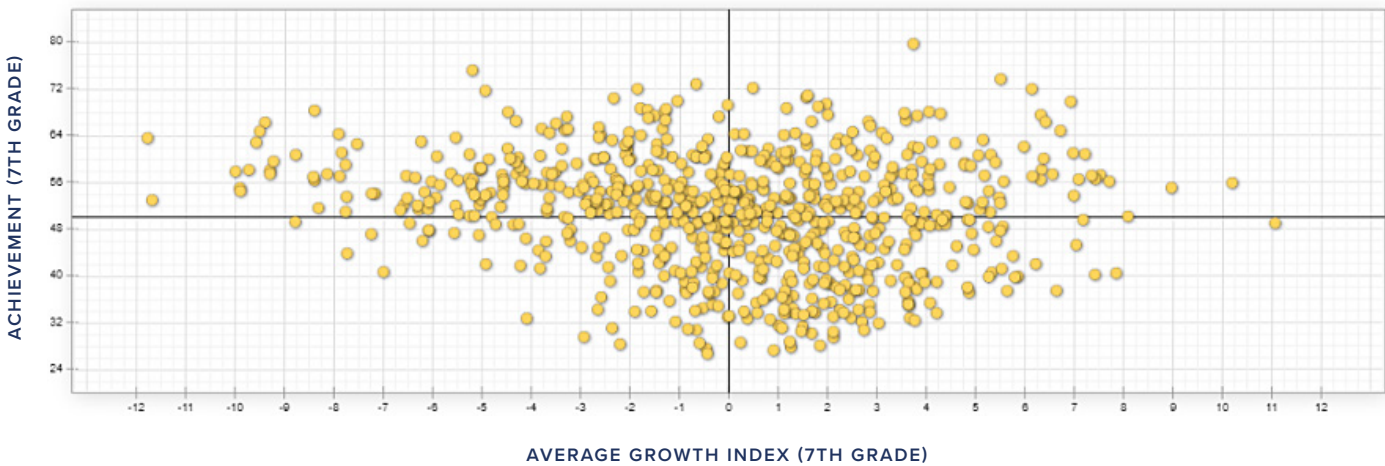
## Grade 6 Mathematics Statewide

School Scatterplot



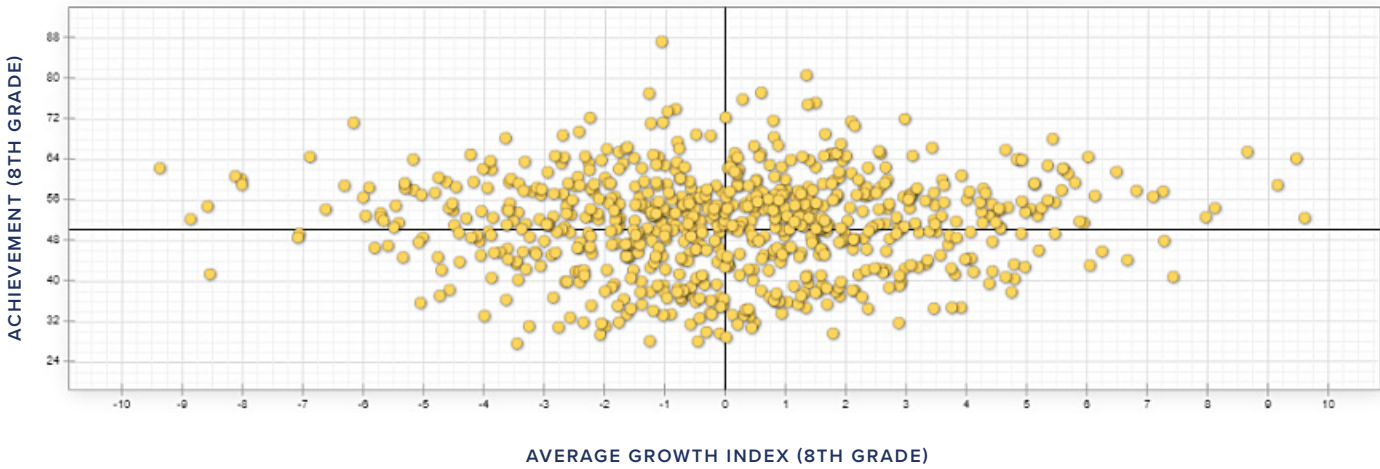
## Grade 7 Mathematics Statewide

School Scatterplot



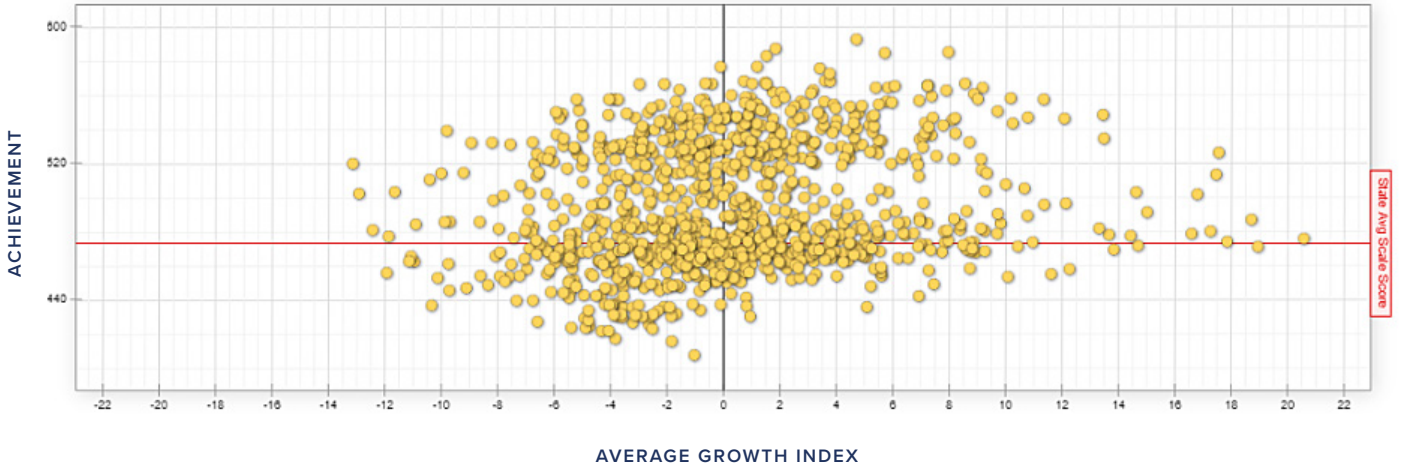
## Grade 8 Mathematics Statewide

School Scatterplot



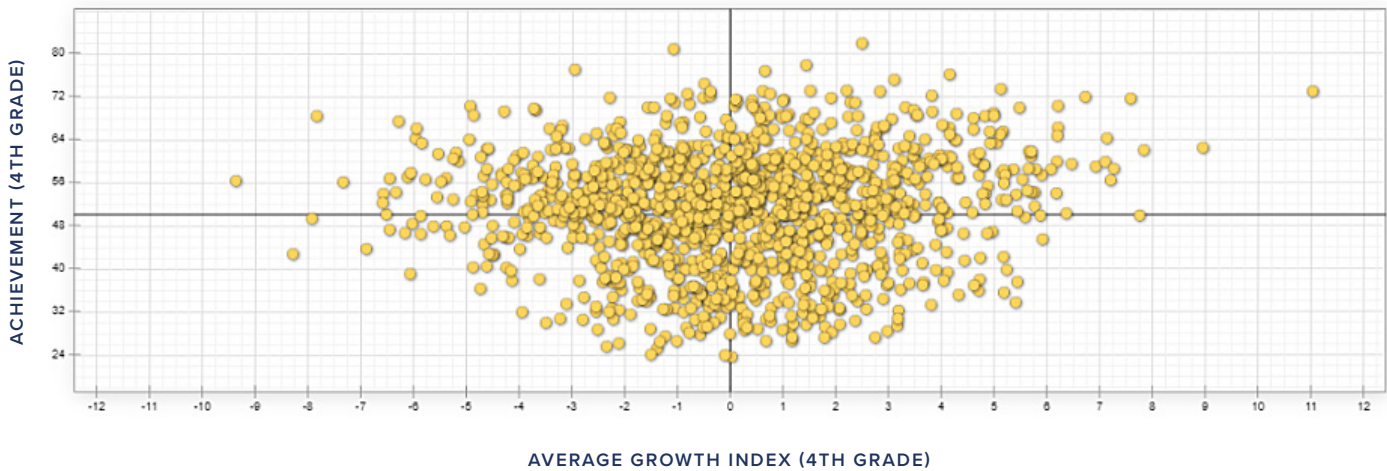
## Keystone Algebra I Statewide

School Scatterplot



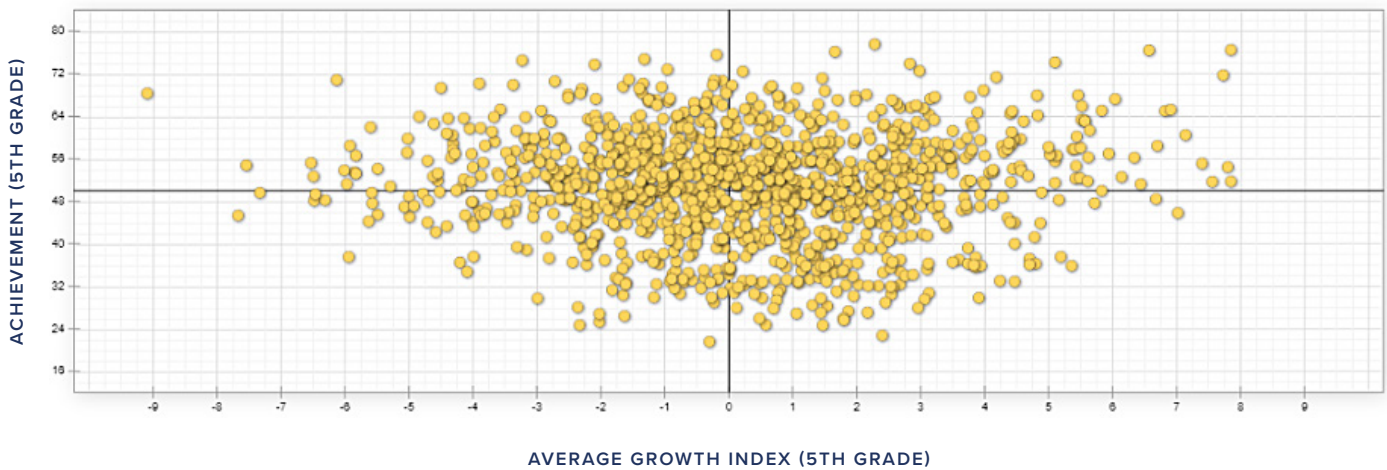
## Grade 4 English Language Arts Statewide

School Scatterplot



## Grade 5 English Language Arts Statewide

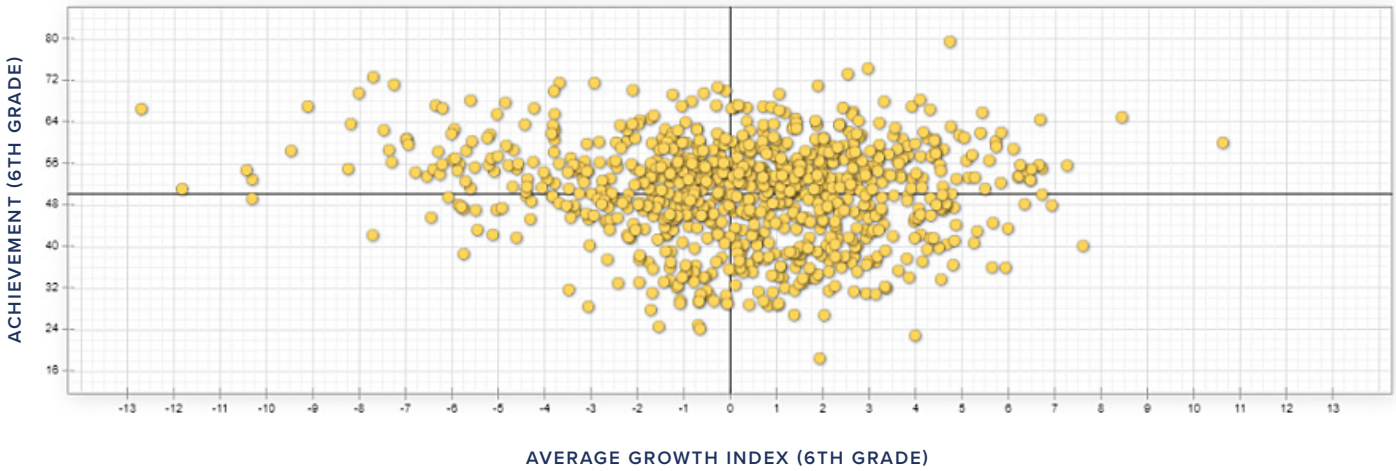
School Scatterplot



**PSSA**  
English Language Arts

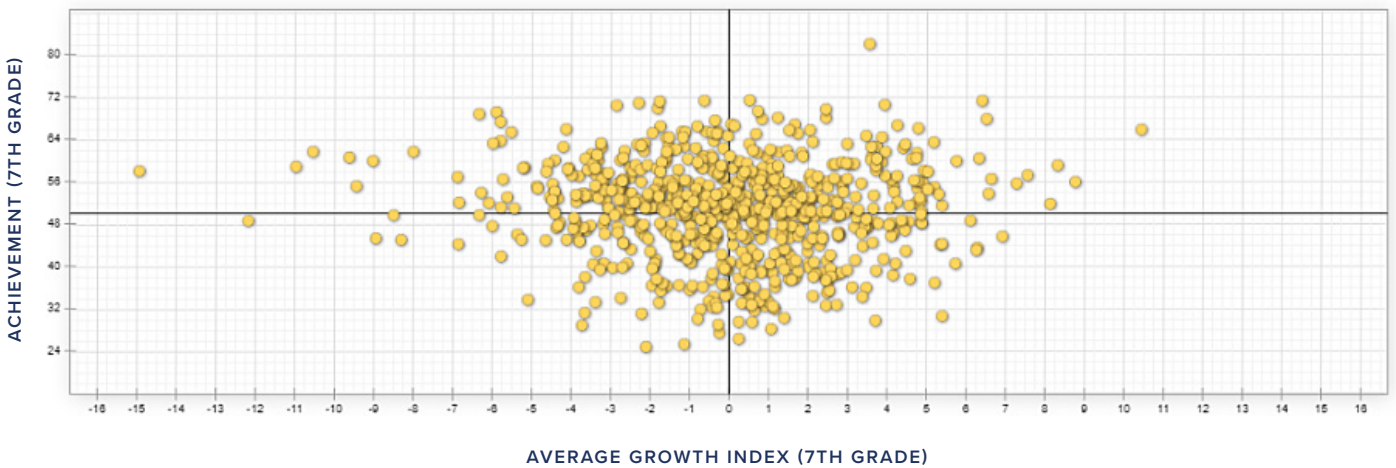
## Grade 6 English Language Arts Statewide

School Scatterplot



## Grade 7 English Language Arts Statewide

School Scatterplot





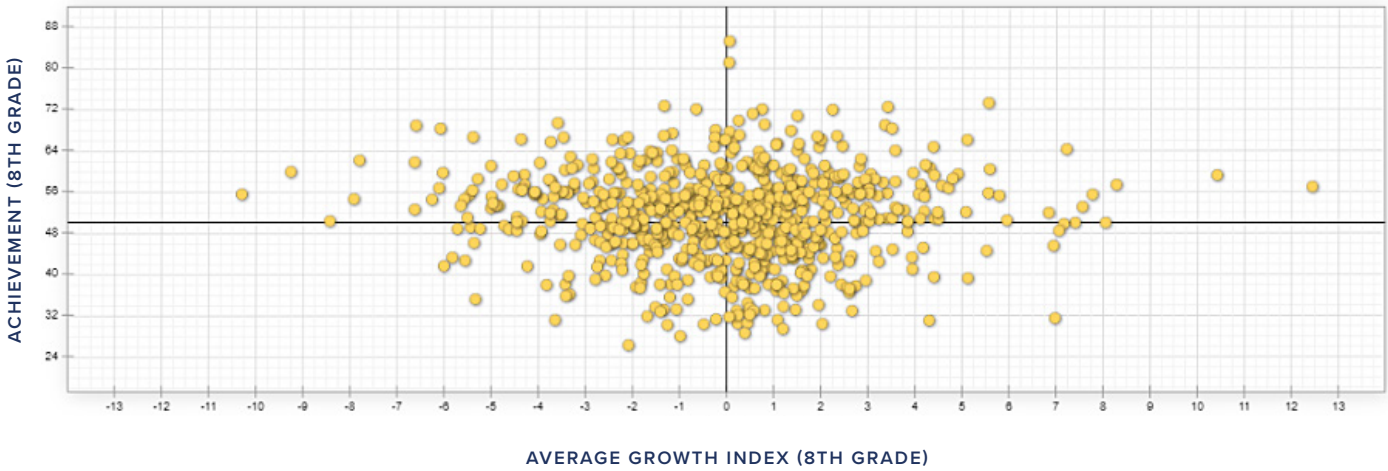


**PSSA**

# English Language Arts

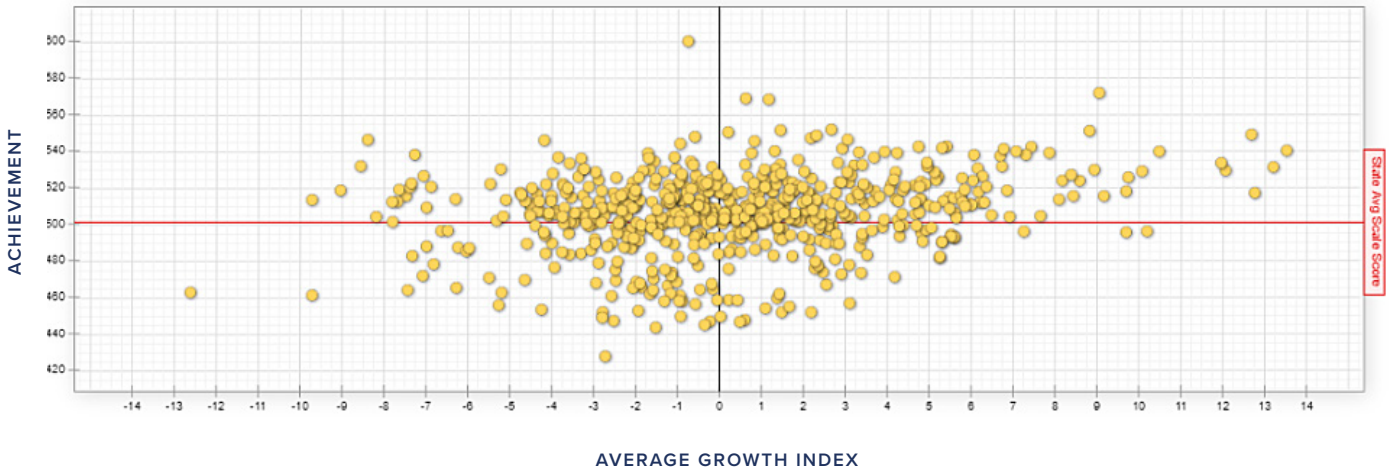
## Grade 8 English Language Arts Statewide

School Scatterplot



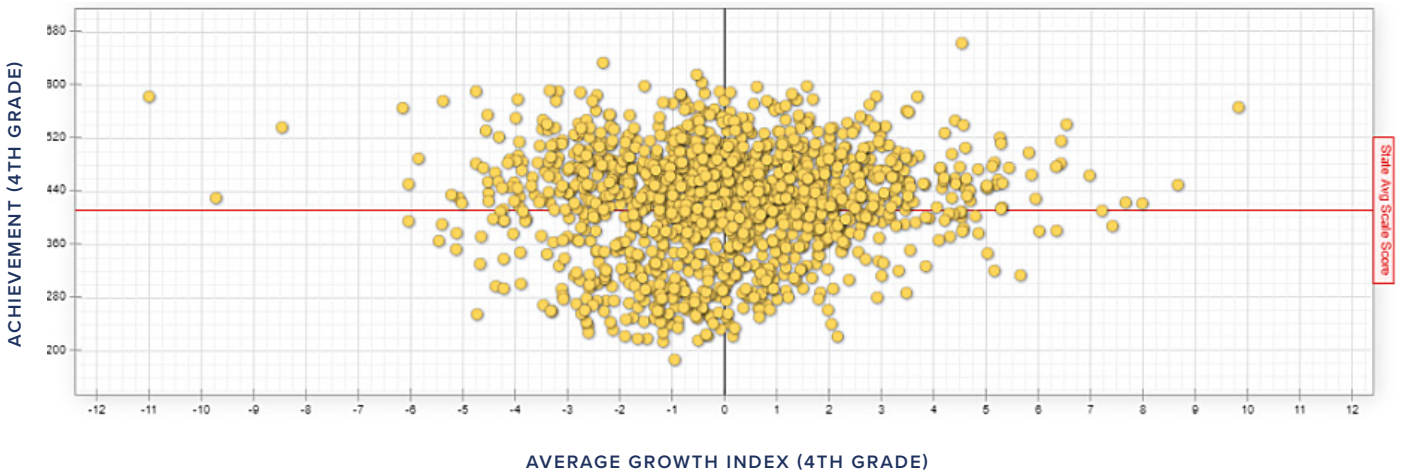
## Keystone Literature Statewide

School Scatterplot



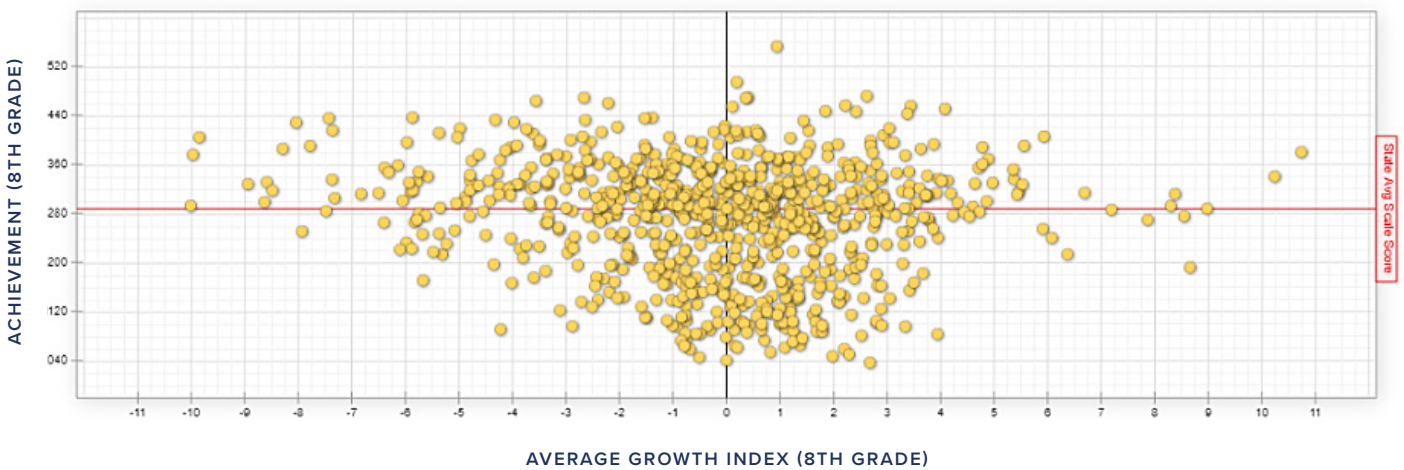
## Grade 4 Science Statewide

School Scatterplot



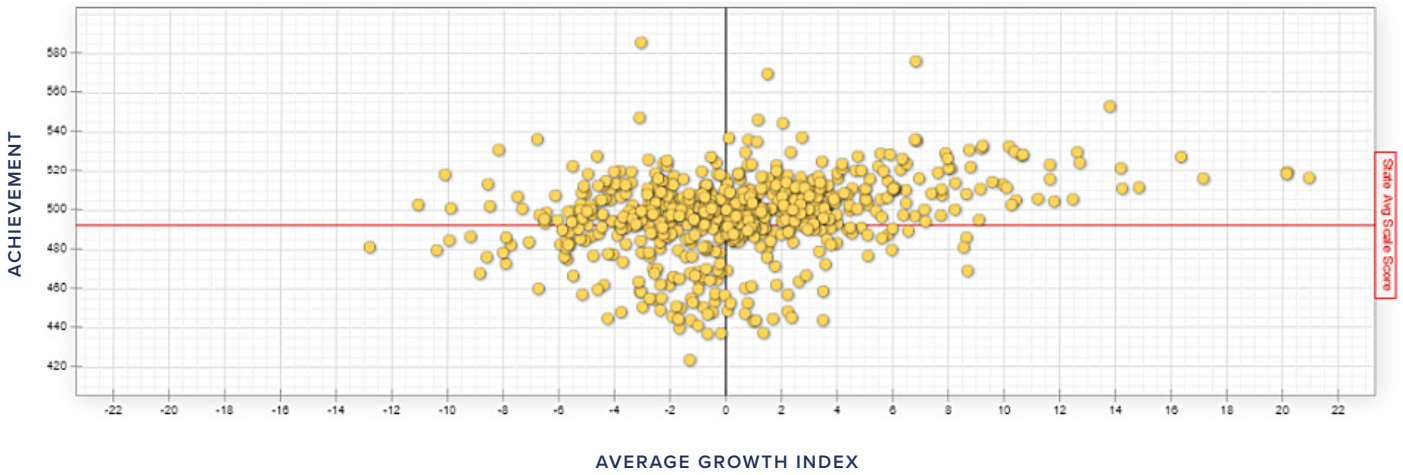
## Grade 8 Science Statewide

School Scatterplot



## Keystone Biology Statewide

School Scatterplot



Visit [education.pa.gov/pvaas](https://education.pa.gov/pvaas) for additional resources.