

Education Committee

August 6, 2019



Mathematics Accountability Information

- Review the available accountability data (high level)
- Review of cohort data (3rd and 6th grade)

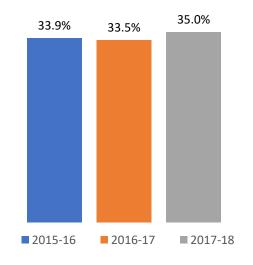
Curriculum Information

- Curriculum Resource Evaluation
- Curriculum Revisions
- Professional Learning
- Support continuum

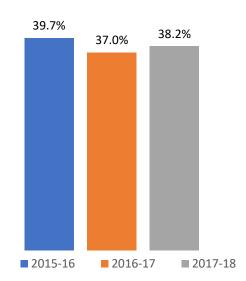


Grades 3-5 Math PSSA/PASA Scores

% Proficient or Advanced

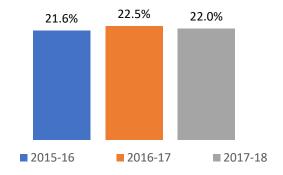


% Below Basic

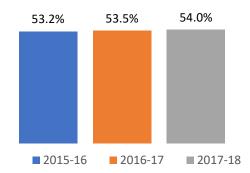


Grades 6-8 Math PSSA Scores

% Proficient or Advanced

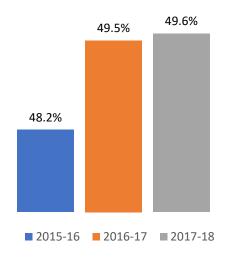


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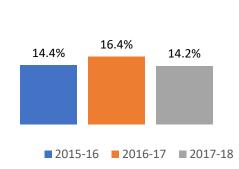


Grade 11 Best of Keystone Algebra I





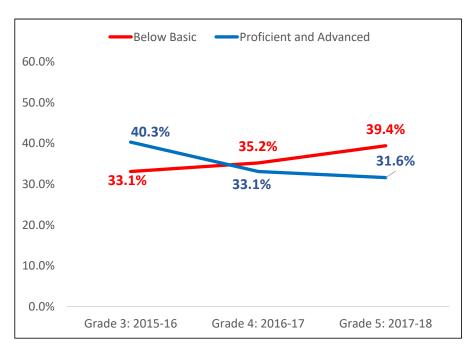
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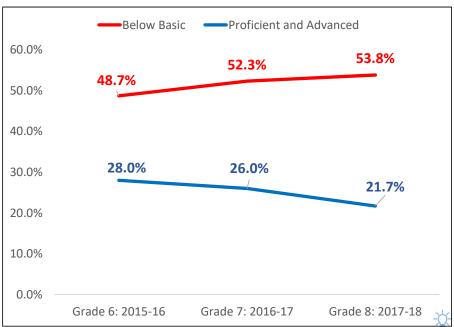




Grade 3 (2015-16 Cohort over time)

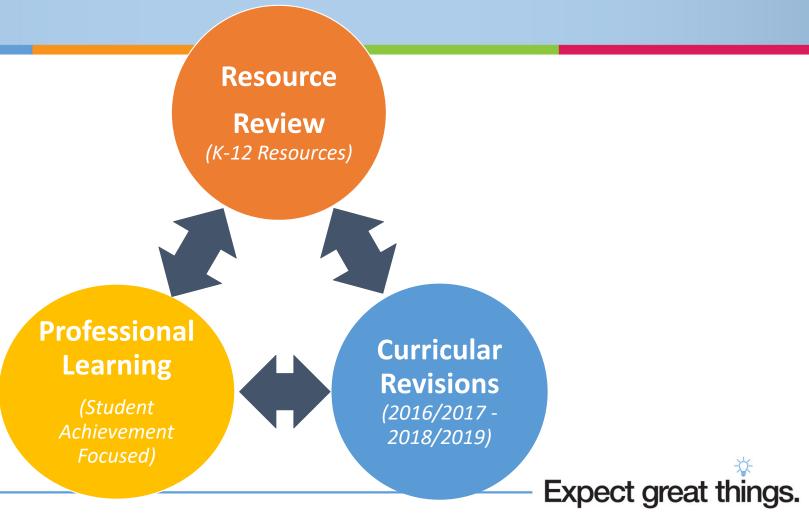
Grade 6 (2015-16 Cohort over time)





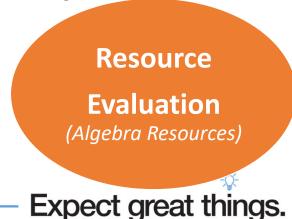
Curriculum & Instruction

Actions Taken in 2017-2019



Review of Mathematics Resources

- Several Pennsylvania Core Standards (PA Core Standards) that were assessed were not addressed in the resource or curriculum documents (Resource was 10 years old).
- Technology piece for the core resource was no longer available (expired in 2015).
- Algebra resources addressed content that was taught in middle grades
- There was a lack of coherence and focus of major work.
- Insufficient or inadequate resources to support instruction.



Curriculum Revision in 2017-2018

- Aligned curriculum to Standards/Eligible Content
- Identified two resources currently used in the district with better standards alignment to infuse districtwide expectations in Algebra I
- Developed and implemented an instructional framework
- Implemented an intervention program to support students' needs
- Provided strategies and practices for differentiation
- Increased instructional support to teachers

Curricular Revisions (2016/2017 -2018/2019)

Curriculum Revision in 2018-2019

- Adopted instructional resources for all grade levels
- Revised curriculum to ensure more emphasis on major work of the grade
- Shifted to an intervention program that was user-friendly
- Provided more research-based strategies and best practices
- Created an advanced & accelerated pathway
- Created an algebra preparation course to support success in algebra.



Professional Learning - Supporting the Shift in Curriculum

- Provided training on new resources
- Implemented use of student interactive notetaking
- Provided training and support on scaffolding instruction based on students' needs

 Continued to provide support on the use of data to plan and deliver instruction matched to the needs of students.

Professional Learning

(Student Achievement Focused)

Professional Learning Moving Forward

- Provide training on the appropriate uses of computer-assisted instruction
- Create professional learning opportunities on a continuum of learning
- Increase professional learning for District Academic Coaches
- Continue to provide support on the use of data to professional deliver instruction matched to the needs of stude
- Work with community partners on building the capacity of staff

(Student Achievement Focused)

Support Continuum

Support teachers with planning and content professional learning according to data deficiencies
Assist schools with Implementation of all approved instructional resources – Continuation of Scope & Sequence (Remediation resources)
Assist with small teacher-led groups with a secondary instructional focus on deficiencies observed in the most recent data (Pre-requisite Skills)
Assist with appropriate task selection that will engage students in tasks that promote critical thinking and application of the mathematical practices and problem-solving strategies
Work side-by-side with teachers on probing and checking for understanding with conceptual understanding being the target
Expect great things.



Questions??