

# APS Math and CS

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# Goals/ Action Items For Current Year

- Elementary
  - Continued Coaching Support for Curriculum and Instruction
  - Support Unit Planning which includes Formative Data
  - Restructure Assessment System - work continued over the next few years
  - Restructure student intervention to include push in and pull out services
- OMS/Gibbs
  - Restructure CS
  - Continued Standards Alignment
  - Incorporate data cycles to identify core issues
- AHS
  - Closure of Alg I B and creation of inclusion Alg I A
  - Incorporate data cycles to identify core issues
  - Revisions to CS
  - Revisions to the Math Fair Project - included the 8th grade section

# Elementary Update - Curriculum Implementation

1. Initial Implementation Phase Completed this year
  - Teachers in K-5 were trained in Investigations 3.0
    - 56 teachers attended at least one Summer Math PD directly related to implementing the curriculum
    - Teachers attended 3 unit planning days during their implementation year
    - Coaches have supported teachers in their classrooms and in weekly planning during unit planning year

# Elementary Update - Intervention

## 2. Development of system wide Tier 2 and Tier 3 Math Support

- Student Intervention 4 full-time staff
  - Thompson, Hardy, Stratton, and Peirce
  - Push in and Pull out services
  - Pilot of online support and Running Records
- Four Math Practice Guides
  - Provide roughly 10 hours per week
  - Thompson, Bishop, Brackett, and Dallin

# OMS/Gibbs Update

1. Creation of 7th/8th grade CS elective
  - a. Served roughly  $\frac{1}{3}$  of the population
  - b. Focused on problem solving, algorithmic thinking, and computational thinking
  - c. Utilized mBots, Scratch, and Python
2. Creation of a mandatory 6th grade course
  - a. Focused on problem solving, algorithmic thinking, and computational thinking
  - b. Utilized 3D printing, Vorpals Robots, and Scratch

# AHS Update

1. Restructure Math offerings
  - a. Alg I B closed, inclusion sections created
  - b. Revisions of curriculum in all Geo levels
2. CS Course Revisions
  - a. Rotating semester courses established
  - b. Implementation of new introductory standard level course for Freshmen, primarily
  - c. Modifications and improvements to the Math Fair project, offered to all non-senior honors level students

# Goals/Action Items For Next Year

1. Coaching Support for Tier 1 Curriculum and Instruction through:
  - Coaching cycles
  - Weekly grade level team meeting: look at student work and assessments to inform instruction
2. Tier 2 and Tier 3 Math Intervention
  - Continue to pilot Running Records
  - Collect student data 3 times a year
  - Create data sharing document

# Goals/Action Items For Next Year

- OMS/Gibbs
  - Implement a 7th and an 8th grade course for CS - still elective
  - Continue revisions in curriculum due to the shift
  - Incorporate data cycles to identify core issues
- AHS
  - Close Geo B and create inclusion sections - continue curriculum revisions
  - Offer semester courses in Linear Algebra and Number Theory
  - Continue revision of Alg I course based on data and feedback from this year
  - Incorporate data cycles to identify core issues

Any Questions?