

Hilliard City School District

Mathematics 2018-2019

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Timeline

State Board of Education approves [updates to Mathematics Standards](#)

WI
2016-2017

District and building level teams understand the updates to standards and supporting documents and determine any changes needed

SP/SU
2016-2017

District and building level teams update resources to reflect changes and plan implementation

FA/WI
2017-2018

Updated standards are fully implemented

SP
2017-2018

Timeline (con't)

State Board of Education releases [Model Curriculum with Instructional Supports](#) (Grades 6-9)

**SU-WI
2018-2019**

District teams use these documents as we design mastery learning rubrics, align assessments & instruction

**FA-SP
2018-2019**

Modifications are shared at building level through data teams

**SP/SU
2018-2019**

Updated curriculum is fully implemented with ODE model curriculum

**FA
2019-2020**

Preparing our Students for Tomorrow

Grade Level AND Mathematical Practice Standards

KINDERGARTEN OVERVIEW

COUNTING AND CARDINALITY

- Know number names and the count sequence.
- Count to tell the number of objects.
- Compare numbers.

OPERATIONS AND ALGEBRAIC THINKING

- Understand addition as putting together and adding to, and understand subtraction as taking apart and taking from.

NUMBER AND OPERATIONS IN BASE TEN

- Work with numbers 11–19 to gain foundations for place value.

MEASUREMENT AND DATA

- Identify, describe, and compare measurable attributes.
- Classify objects and count the number of objects in each category.

GEOMETRY

- Identify and describe shapes (squares, circles, triangles, rectangles, hexagons, cubes, cones, cylinders, and spheres).
- Describe, compare, create, and compose shapes.

MATHEMATICAL PRACTICES

1. Make sense of problems and persevere in solving them.
2. Reason abstractly and quantitatively.
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend to precision.
7. Look for and make use of structure.
8. Look for and express regularity in repeated reasoning.

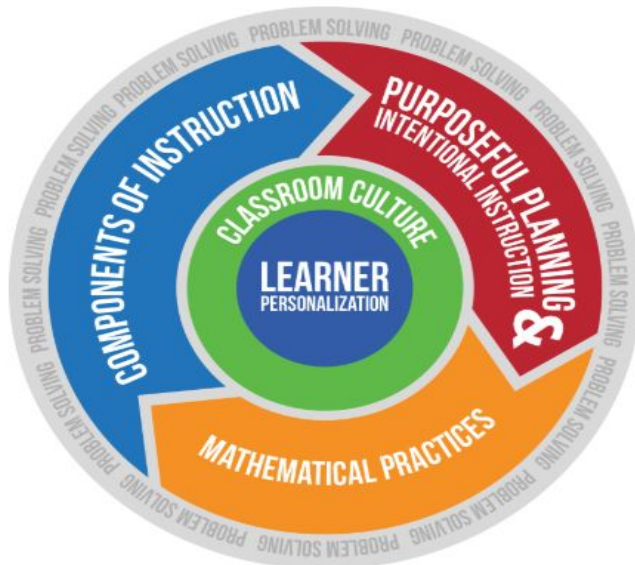
Elementary Math Framework

During the transition period, a coaching/teacher team updated our math framework, district units, and assessments.

What is a Math Framework?

- Our math framework gives a clear picture of what we value for teaching and learning for mathematics.
- The framework is the “how” of our mathematics teaching and learning
- The standards are the “what” of our mathematics teaching and learning
- Framework details are based upon research from:
 - “Principles to Actions: ensuring Mathematical Success for All” (NCTM, 2014)
 - “Mathematical Mindsets” (Boaler, Jo 2016)
- We transitioned our [Elementary Math Curriculum Course](#) to Canvas

Elementary Math Framework



A video was created to explain the purpose and details of our updated framework. Each building math coach delivered this message during a building level professional development.

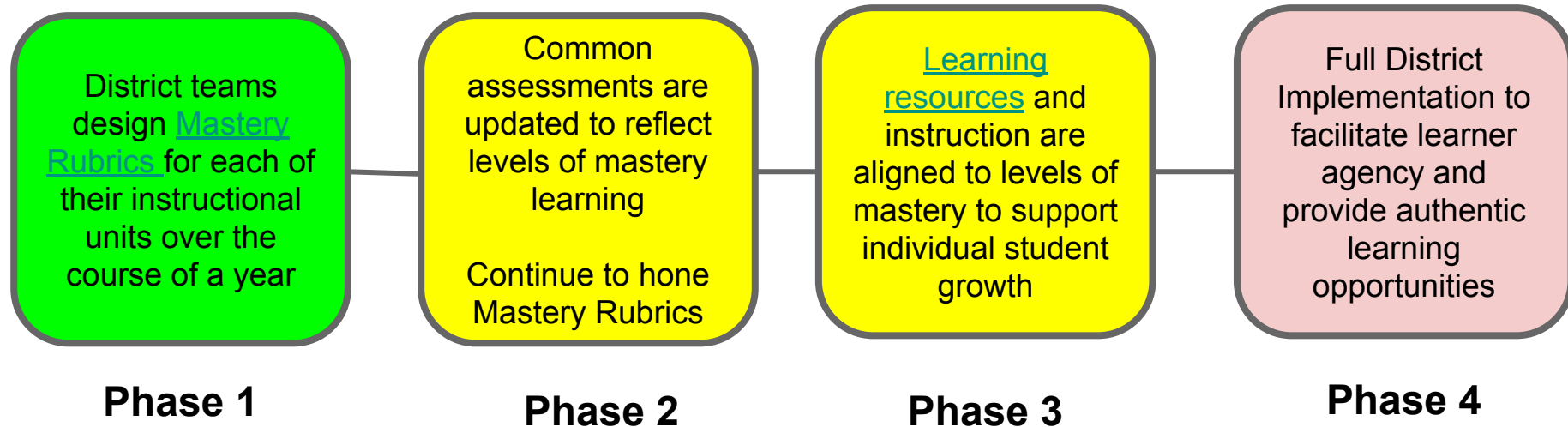
Secondary Math – Course Changes

Honors Math 6

PreAlgebra changed to Accelerated Math 7

Senior Algebra 2/Business Course

Secondary Math – Mastery Learning Rubrics



Elementary → Secondary Connections

June Bootcamp for Students

Summer Academy Course being offered
for teachers, grades 3-8

Hilliard University

5th to 6th Grade Transitions

Fraction - Learning Progressions

Teaching Geometry Concepts for Deeper Learning
Through Van Hiele Levels