

Curriculum Map *(Revised 6/14/17)*

Grade: 7th Accelerated

Subject Area: Mathematics

Quarter: 1

Strand/ Domain	Cluster	Standards-based Essential Skills/ Concepts to be Targeted & Instructional Strategies	Formative Assessment	Summative Assessment	Text Reference	
The Number System	Cluster 1	____ 1.1 Relate sums of rational numbers to movements or situations. ____ 1.1 Relate subtraction of rational numbers to adding the opposite. ____ 1.1 Find distances between rational numbers on a number line. ____ 1.1 Add and subtract integers. ____ 1.1 Add and subtract rational numbers. ____ 1.2 Apply multiplication properties to rational numbers. ____ 1.2 Multiply and divide integers. ____ 1.2 Multiply and divide rational numbers. ____ 1.2 Write rational numbers as decimals. ____ 1.3 Compute with rational numbers to solve problems. ____ 1.3 Solve multi-step problems with rational numbers. ____ 1.3 Interpret products of rational numbers in real situations. ____ 1.3 Interpret quotients of rational numbers in real situations.	Observations Homework Reflection journals Question & answer sessions (both formal & informal) Conferences with students Exit tickets Conferences with students Self-evaluation of performance			
FAMS.7.NS.1.1						
FAMS.7.NS.1.2						
FAMS.7.NS.1.3						
FAMS.8.NS.1.1						
FAMS.8.NS.1.2			____ 8.1.1 Identify rational and irrational numbers. ____ 8.1.1 Convert repeating decimals to rational numbers. ____ 8.1.2 Find approximations for irrational numbers.			
Expressions & Equations			____ 1.1 Add and subtract linear expressions with rational			

MAFS.7.EE.1.1	Cluster 1	coefficients.			
MAFS.7.EE.1.2		___1.1 Expand or factor linear expressions.			
MAFS.8.EE.1.3		___1.2 Interpret related expressions in real situations.			
MAFS.8.EE.1.4		___8.1.3 Convert between standard notation and scientific notation. ___8.1.4 Use scientific notation to compare relative sizes of numbers. ___8.1.4 Convert measurement results to appropriate units.			

Curriculum Map (Revised 6/14/17)

Grade: 7

Subject Area: Mathematics

Quarter: 2

Domain	Cluster	Standards-based Essential Skills/ Concepts to be Targeted & Instructional Strategies	Formative Assessment	Summative Assessment	Text Reference
<p>Expressions & Equations</p> <p>MAFS.7.EE.2.3</p> <p>MAFS.7.EE.2.4</p>	<p>Cluster 2</p>	<p>___2.3 Use operations with whole numbers to solve multi-step problems.</p> <p>___2.3 Use fractions to solve multi-step problems.</p> <p>___2.3 Use decimals to solve multi-step problems.</p> <p>___2.4 Assess reasonableness of answers by using estimation.</p> <p>___2.4 Solve linear equations of form $px + q = r$ and $p(x + q) = r$.</p> <p>___2.4 Write linear equations to solve word problems.</p> <p>___2.4 Relate algebraic solutions to arithmetic solutions.</p> <p>___2.4 Write and solve linear inequalities for situations.</p> <p>___2.4 Graph and interpret solutions to inequalities.</p>			
<p>Statistics & Probability</p> <p>MAFS.7.SP.1.1</p> <p>MAFS.7.SP.1.2</p>	<p>Cluster 1</p>	<p>___1.1 Identify representative sampling methods.</p> <p>___1.2 Use a sample to draw inferences about a population.</p>			

Statistics & Probability					
MAFS.7.SP.2.3	Cluster 2	___2.3 Visually compare the centers and spreads of distributions on dot plots			
MAFS.7.SP.2.4		___2.3 Compare predictions from various samples.			
MAFS.8.SP.1.1		___2.4 Use measures of center and variability to make inferences.			
MAFS.8.SP.1.2		___8.1 Construct scatter plots.			
MAFS.8.SP.1.3		___8.2 Interpret scatter plots.			
		___8.3 For data that appear to be linear, estimate a line of best fit.			

<p>MAFS.7.G.2.5</p> <p>MAFS.7.G.2.6</p>	<p>Cluster 2</p>	<p>___2.4 Apply formulas for circumference and area of circles.</p> <p>___2.5 Solve equations to find supplementary, complementary, vertical, and adjacent angles.</p> <p>___2.6 Solve problems involving area and surface area.</p> <p>___2.6 Solve problems involving volume of rectangular prisms.</p>			
<p>Geometry</p> <p>MAFS.8.G.3.9</p>	<p>Cluster 3</p>	<p>___3.9 Apply the formula for volume of a cone.</p> <p>___3.9 Apply the formula for volume of a cylinder.</p> <p>___3.9 Apply the formula for volume of a sphere.</p>			

- Although measurement is not found in the 7th grade standards, it should be emphasized throughout the curriculum:
- Estimate & measure with appropriate precision the length/distance, time, temperature, weight, mass, and volume.

Curriculum Map *(Revised 6/14/17)*

Grade: 7

Subject Area: Mathematics

Quarter: 4

Strand/ Domain	Cluster	Standards-based Essential Skills/ Concepts to be Targeted & Instructional Strategies	Formative Assessment	Summative Assessment	Text Reference
Statistics & Probability MAFS.7.SP.3.5 MAFS.7.SP.3.6 MAFS.7.SP.3.7 MAFS.7.SP.3.8	Cluster 3	___3.5 Compare probabilities and relate to likelihoods of events. ___3.5 Calculate simple probabilities based on equally-likely outcomes. ___3.6 Use relative frequency of outcomes to approximate probability. ___3.7 Use a model to determine probability of events. ___3.7 Make predictions based on relative frequency, and compare results to predictions. ___3.8 Calculate probabilities of compound events. ___3.8 Create an organized list, table, or tree diagram for a compound event.			
Geometry MAFS.8.G.1.1 MAFS.8.G.1.2 MAFS.8.G.1.3 MAFS.8.G.1.4 MAFS.8.G.1.5	Cluster 1	___8.1.1 Identify congruent parts in rotations, reflections, and translations. ___8.1.2 Identify transformations that move a figure onto a congruent figure. ___8.1.3 Use coordinates to describe translations, reflections, and rotations. ___8.1.3 Use coordinates to describe dilations. ___8.1.4 Compare ratios of side lengths to decide if two figures are similar. ___8.1.4 Identify the scale factor that enlarges or reduces a figure to match a similar figure. ___8.1.5 Identify transformations that move a figure			

		<p>onto a similar figure.</p> <p>___8.1.5 Justify and calculate angle measures in triangles and line figures.</p> <p>___8.1.5 Justify the angle-angle criterion of similar triangles.</p>			
<p>Geometry</p> <p>MAFS.8.G.2.6</p> <p>MAFS.8.G.2.7</p> <p>MAFS.8.G.2.8</p>	Cluster 2	<p>___8.2.6 Explain a proof of the Pythagorean Theorem and its converse.</p> <p>___8.2.7 Use the Pythagorean Theorem to find lengths.</p> <p>___8.2.8 Use the Pythagorean Theorem to find distance between points.</p>			

The standards listed below will be incorporated into the Art and Technology

MAFS.SP.7.1.2 } Draw geometric shapes with given conditions.

MAFS.SP.7.1.3 } Describe two-dimensional figures that result from slicing solids.