

Worth County Middle School 7th Grade Gifted Mathematics Curriculum Map

1 st Semester						
1 st Nine weeks				2 nd Nine Weeks		
Unit 1: Operations With Rational #'s	Unit 2: Expressions and Equations	Unit 3: Ratios & Proportional Relationships	Unit 4: Inferences	Unit 5: Geometry	Unit 6: Probability	Unit 7: 8 th Grade Acceleration Exponents
Standards: MGSE7.NS.1a MGSE7.NS.1b MGSE7.NS.1c MGSE7.NS.1d MGSE7.NS.2a MGSE7.NS.2b MGSE7.NS.2c MGSE7.NS.2d MGSE7.NS.3	Standards: MGSE7.EE.1 MGSE7.EE.2 MGSE7.EE.3 MGSE7.EE.4a MGSE7.EE.4b	Standards: MGSE7.RP.1 MGSE7.RP.2a MGSE7.RP.2b MGSE7.RP.2c MGSE7.RP.2d MGSE7.RP.3 MGSE7.G.1	Standards: MGSE7.SP.1 MGSE7.SP.2 MGSE7.SP.3 MGSE7.SP.4	Standards: MGSE7.G.2 MGSE7.G.3 MGSE7.G.4 MGSE7.G.5 MGSE7.G.6 MGSE8.G.6 MGSE8.G.7 MGSE8.G.8 MGSE8.G.9 MGSE8.EE.2 MGSE8.EE.7	Standards: MGSE7.SP.5 MGSE7.SP.6 MGSE7.SP.7a MGSE7.SP.7b MGSE7.SP.8a MGSE7.SP.8b MGSE7.SP.8c	Standards: MGSE8.EE.1 MGSE8.EE.2 MGSE8.EE.3 MGSE8.EE.4 MGSE8.EE.7a MGSE8.EE.7b MGSE8.NS.1 MGSE8.NS.2
<u>Concepts</u> *Integer Rules -Compare & Order -Add, Subtract, Multiply & Divide *Rational #'s -Compare & Order -Add, Subtract, Multiply & Divide *Operations # lines -Vertical and Horizontal *Using Models to display operations *Zero Pairs/Additive Inverse *Absolute Value *Properties of Numbers *Converting Fractions to Decimals with long Division	<u>Concepts</u> *Variable & Coefficients *Write/Interpret Algebraic Expressions *Solving Equations w/rational numbers -One-Step -Two-Step -Multistep *Converting word problems into equations & expressions *Inequalities -One-Step -Two-Step	<u>Concepts</u> *Unit Rates -Ratios -Lengths -Areas *Representing Proportional Relationships *Testing Equivalent Ratios -In a table -On a graph *Constant of Proportionality (Tables, Graphs, Equations, Diagrams, Verbal Descriptions) *Multistep Ratio and % problems. *Scale Drawings	<u>Concepts</u> *Statistics -Populations -Samples -Validity *Drawing Inferences w/ multiple samples *Comparative Inferences *Measures of Center (Mean, Median, Mode) *Measures of Variability	<u>Concepts</u> *Constructing Triangles with given conditions *Cross-sections of 3D Figures *Circumference & Area of Circles *Angles -Supplementary -Complementary -Vertical -Adjacent *Write and Solve equations for unknown angles *Area, Volume, & Surface Area of 2D & 3D objects *Right Triangles *Pythagorean Theorem *Distance between two points on a coordinate plane using the Pythagorean Theorem *Volume of cylinders, cones, and spheres *Use Radicals and Integer Exponents	<u>Concepts</u> *Simple Events -Probability -Likelihood -Approximating & Predicting *Probability Models -Uniform -Non-Uniform -Explaining Discrepancy *Compound Events -Lists -Tables -Tree Diagrams -Simulations -Sample Space	<u>Concepts</u> * Properties of integer exponents *Square Roots *Cube Roots *Scientific Notation *Irrational Numbers *Estimate Irrational Numbers
Standards for Mathematical Practice						
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.		

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Key: NS = The Number System, RP = Ratios and Proportional Relationships, EE = Expressions and Equations, G = Geometry, SP = Statistics and Probability