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| **Worth County Middle School 7th Grade GIFTED Mathematics Curriculum Map** |
| **1st Semester** | **2nd Semester** |
| **1st Nine weeks** | **2nd Nine Weeks** | **3rd Nine Weeks** | **4th 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:****Show What We Know** | **Unit 8:****Transformations, Congruence, and Similarities** |
| **4 weeks** | **5 weeks** | **5 weeks** | **4 Weeks** | **4 Weeks** | **5 Weeks** | **3 Weeks** | **6 weeks** |
| **Standards:**MCC7.NS.1aMCC7.NS.1bMCC7.NS.1cMCC7.NS.1dMCC7.NS.2aMCC7.NS.2bMCC7.NS.2cMCC7.NS.2dMCC7.NS.3**MCC8.NS.1** | **Standards:**MCC7.EE.1MCC7.EE.2MCC7.EE.3MCC7.EE.4aMCC7.EE.4b**MCC8.EE.7** | **Standards:**MCC7.RP.1MCC7.RP.2aMCC7.RP.2bMCC7.RP.2cMCC7.RP.2dMCC7.RP.3MCC7.G.1**MCC8.F.3** | **Standards:**MCC7.SP.1MCC7.SP.2MCC7.SP.3MCC7.SP.4**MCC8.SP.1** | **Standards:**MCC7.G.2MCC7.G.3MCC7.G.4MCC7.G.5MCC7.G.6**MCC8.G.9** | **Standards:**MCC7.SP.5MCC7.SP.6MCC7.SP.7aMCC7.SP.7bMCC7.SP.8aMCC7.SP.8bMCC7.SP.8c | All | **Standards:****MCC8.G.1****MCC8.G.2****MCC8.G.3****MCC8.G.4****MCC8.G.5** |
| **Incorporated Standards** |
| None | MCC7.NS.1MCC7.NS.2MCC7.NS.3 | MCC7.EE.3MCC7.NS.1MCC7.NS.2MCC7.NS.3 | MCC7.NS.1MCC7.NS.2MCC7.NS.3 | MCC7.G.1 | None | None | None |
| **Concepts****\***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\***Irrational Numbers** **\*Exponents- positive integers only** | **Concepts**\*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\***Multi-Step Equations using Distributive Property** | **Concepts****\***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\* **Slope-intercept form** | **Concepts****\***Statistics-Populations-Samples-Validity\*Drawing Inferences w/ multiple samples\*Comparative Inferences\*Measures of Center (Mean, Median, Mode)\*Measures of Variability**\*Scatter Plots** | **Concepts****\***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**\*Apply area and volume formulas for cone, cylinders, and spheres in real-world problems.** | **Concepts****\***Simple Events-Probability-Likelihood-Approximating & Predicting \*Probability Models-Uniform-Non-Uniform-Explaining Discrepancy\*Compound Events-Lists-Tables-Tree Diagrams-Simulations-Sample Space | Projects, Tasks, CRCT Review over all standards (May Vary by teacher). | **Concepts****\*Properties of rotations, reflections, and translations.****\*Prove congruence using transformations.****\*Describe transformations using coordinates.****\*Similarity using transformations.****\*Prove triangles congruent using angle theorems.** |
| **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. |