|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **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.1a  MCC7.NS.1b  MCC7.NS.1c  MCC7.NS.1d  MCC7.NS.2a  MCC7.NS.2b  MCC7.NS.2c  MCC7.NS.2d  MCC7.NS.3  **MCC8.NS.1** | **Standards:**  MCC7.EE.1  MCC7.EE.2  MCC7.EE.3  MCC7.EE.4a  MCC7.EE.4b  **MCC8.EE.7** | **Standards:**  MCC7.RP.1  MCC7.RP.2a  MCC7.RP.2b  MCC7.RP.2c  MCC7.RP.2d  MCC7.RP.3  MCC7.G.1  **MCC8.F.3** | **Standards:**  MCC7.SP.1  MCC7.SP.2  MCC7.SP.3  MCC7.SP.4  **MCC8.SP.1** | **Standards:**  MCC7.G.2  MCC7.G.3  MCC7.G.4  MCC7.G.5  MCC7.G.6  **MCC8.G.9** | **Standards:**  MCC7.SP.5  MCC7.SP.6  MCC7.SP.7a  MCC7.SP.7b  MCC7.SP.8a  MCC7.SP.8b  MCC7.SP.8c | All | **Standards:**  **MCC8.G.1**  **MCC8.G.2**  **MCC8.G.3**  **MCC8.G.4**  **MCC8.G.5** |
| **Incorporated Standards** | | | | | | | |
| None | MCC7.NS.1  MCC7.NS.2  MCC7.NS.3 | MCC7.EE.3  MCC7.NS.1  MCC7.NS.2  MCC7.NS.3 | MCC7.NS.1  MCC7.NS.2  MCC7.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. | | | |