

## Marietta City Schools Grade 5 Math Curriculum Map 2023-2024

| Unit Name   | <u>Unit 1</u><br>Investigating Volume of Solid Figures  | <u>Unit 2</u><br>Building Conceptual Understanding of Place Value Using Measurement and Data Reasoning   | <u>Unit 3</u><br>Building Conceptual Understanding of Multiplication and Division with Whole Numbers   | <u>Unit 4</u><br>Building Fraction Understanding  | <u>Unit 5</u><br>Making Sense of Fraction Multiplication and Division  | <u>Unit 6</u><br>Extending Place Value and Working with Decimals to Solve Problems  | <u>Unit 7</u><br>Exploring Geometry and the Coordinate Plane  | <u>Unit 8</u><br>Culminating Capstone Unit  |
|---|---|--|--|---|--|---|---|---|
| Time Frame  | 2 - 3 weeks   | 4 -5 weeks   | 3 - 4 weeks  | 3 - 4 weeks   | 5 - 6 weeks  | 4 - 5 weeks   | 3 - 4 weeks   | 1 - 2 weeks   |
| Standards   | 5.NR.5.1<br>5.GSR.8.3<br>5.GSR.8.4<br>5.MP.1-8  | 5.NR.1.1<br>5.NR.1.2<br>5.MDR.7.1<br>5.MDR.7.2<br>5.MDR.7.3<br>5.MDR.7.4<br>5.MP.1-8   | 5.NR.2.1<br>5.NR.2.2<br>5.NR.5.1<br>5.MDR.7.2<br>5.MP.1-8  | 5.NR.3.2<br>5.NR.3.3<br>5.MDR.7.2<br>5.MP.1-8   | 5.NR.3.1<br>5.NR.3.4<br>5.NR.3.5<br>5.NR.3.6<br>5.MP.1-8   | 5.NR.4.1<br>5.NR.4.2<br>5.NR.4.3<br>5.NR.4.4<br>5.MDR.7.2<br>5.MP.1-8   | 5.PAR.6.1<br>5.PAR.6.2<br>5.GSR.8.1<br>5.GSR.8.2<br>5.MP.1-8  | ALL STANDARDS   |
|   | <i>The <a href="#">Framework for Statistical Reasoning</a> and the <a href="#">Mathematical Modeling Framework</a> should be taught throughout the units. The <a href="#">K-12 Mathematical Practices</a> should be evidenced at some point throughout each unit depending on the tasks that are explored. It is important to note that MPs 1, 3 and 6 should support the learning in every lesson.</i> |  |  |   |  |   |   |   |
| Content Specific Information                      | <ul style="list-style-type: none"> <li>Recognize volume as a measurable attribute of solid figures</li> <li>Build on understandings of area and multiplication</li> <li>Make sense of volume by building objects and counting cubes</li> <li>Analyze images of prisms constructed of unit cubes to find their volume</li> <li>Write expressions to represent volume</li> </ul>                          | <ul style="list-style-type: none"> <li>Explore and explain patterns when multiplying &amp; dividing by powers of 10</li> <li>Change units to related units within the same measurement system by multiplying or dividing using conversion factors</li> <li>Use line plots to display a data set of measurements</li> <li>Use operations to solve problems based on a line plot</li> <li>Select appropriate units, strategies, and tools for solving problems that involve estimating &amp; measuring volume</li> <li>Ask &amp; answer statistical questions using the statistical reasoning framework</li> </ul> | <ul style="list-style-type: none"> <li>Multiply &amp; divide multi-digit whole numbers using place value understanding, properties of operations, and the relationship between multiplication and division.</li> <li>Use strategies to multiply multi-digit whole numbers &amp; partial quotient algorithms to divide whole numbers up to four-digits by two-digits</li> </ul> | <ul style="list-style-type: none"> <li>Compare &amp; order fractions</li> <li>Add &amp; subtract fractions with unlike denominators</li> <li>Use reasoning for generating equivalent fractions.</li> <li>Extend understanding of linear representations &amp; use number lines to solve problems with dot plots showing measurements</li> <li>Ask &amp; answer statistical questions using the statistical reasoning framework</li> </ul> | <ul style="list-style-type: none"> <li>Interpret a fraction as a quotient &amp; use understanding of whole number multiplication to multiply a whole number and a fraction</li> <li>Solve problems involving division of whole numbers with answers that are fractions</li> <li>Understand fractions as the division of the numerator by the denominator</li> <li>Solve problems that involve the multiplication of a whole number by a fraction or mixed number using properties of operations</li> </ul> | <ul style="list-style-type: none"> <li>Extend understanding of the place value of numbers to include decimals through the thousandths place</li> <li>Use their understanding of place value to locate, compare, &amp; order decimals to the thousandths place</li> <li>Use place-value reasoning to round decimals to the tenths and hundredths places.</li> <li>Extend understanding of whole number operations work to add &amp; subtract decimals utilizing familiar representations, strategies based on place value and properties of operations.</li> </ul> | <ul style="list-style-type: none"> <li>Introduction to the structure of the coordinate grid</li> <li>Build on understanding of shapes by classifying polygons based on their properties</li> <li>Generate two different numerical patterns, &amp; identify relationships between the corresponding terms within those patterns</li> </ul> | The capstone unit applies content that has already been learned in previous interdisciplinary PBLs and units throughout the school year. The capstone unit is an interdisciplinary unit that allows students to create a presentation, report, or demonstration that could include their models used to answer an overarching driving question. (e.g., Students can present their solution(s), findings, project, or answer to the driving question to a larger audience during the culminating capstone unit.) |
| Additional Resources for Instruction & Assessment | Savvas Topic 11<br>MIP Module 2<br>MIP Module 13  | Savvas Topic 8<br>Savvas Topic 9<br>Savvas Topic 13<br>MIP Module 1<br>MIP Module 11<br>MIP Module 12  | Savvas Topic 3<br>Savvas Topic 5<br>Savvas Topic 13<br>MIP Module 2<br>MIP Module 3<br>MIP Module 4  | Savvas Topic 14<br>Savvas Topic 15<br>Savvas Topic 16<br>MIP Module 7   | Savvas Topic 7<br>Savvas Topic 13<br>MIP Module 8<br>MIP Module 9<br>MIP Module 10   | Savvas Topic 2<br>Savvas Topic 3<br>Savvas Topic 4<br>Savvas Topic 6<br>MIP Module 5<br>MIP Module 6  | Savvas Topic 1<br>Savvas Topic 6<br>Savvas Topic 12<br>MIP Module 14<br>MIP Module 15   | All Resources   |
| Differentiation For Tiered Learners               | Marietta City Schools teachers provide specific differentiation of learning experiences for all students. Details for differentiation for learning experiences are included on the district unit planners.  |  |  |   |  |   |   |   |