

Worth County Elementary School Fifth Grade 3rd Nine Weeks
 Mathematics Pacing Guide
 2022-2023

| Week | Dates | Unit Topic | GSE Standard | Overview of lessons taught |
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| 1 | 1/4 - 1/13 | Multiply Fractions | <p>MGSE5.NF.4 Apply and extend previous understandings of multiplication to multiply a fraction or whole number by a fraction.</p> <p>MGSE5.NF.5 Interpret multiplication as scaling (resizing).</p> <p>MGSE5.NF.6 Solve real-world problems involving multiplication of fractions and mixed numbers, e.g., by using visual fractions</p> | <ul style="list-style-type: none"> • Interpret multiplication of a unit fraction by a non-zero whole number, and compute such products • Interpret multiplication of a unit fraction by another unit fraction, and compute such products • Multiply whole numbers and mixed numbers • Multiply fractions and mixed numbers • Multiply mixed numbers • Multiply fractional side lengths to find areas of rectangles, and represent fraction products as rectangular areas. |
| 2 | 1/16 - 1/20 | Divide Fractions | <p>MGSE5.NF.7 Apply and extend previous understandings of division to divide unit fractions by whole numbers and whole numbers by unit fractions.</p> | <ul style="list-style-type: none"> • Interpret division of a unit fraction by a non-zero whole number, and compute such quotients • Interpret division of a whole number by a unit fraction, and compute such quotients. |
| 3 | 1/23 - 1/27 3A 1/27 Common Assessment | Multiply/Divide Fractions | <p>MGSE5.NF.4 Apply and extend previous understandings of multiplication to multiply a fraction or whole number by a fraction.</p> <p>MGSE5.NF.5 Interpret multiplication as scaling (resizing).</p> <p>MGSE5.NF.6 Solve real-world problems involving multiplication of</p> | <ul style="list-style-type: none"> • Interpret multiplication of a unit fraction by a non-zero whole number, and compute such products • Interpret multiplication of a unit fraction by another unit fraction, and compute such products |

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| | | | <p>fractions and mixed numbers, e.g., by using visual fractions</p> <p style="text-align: center;">MGSE5.NF.7</p> <p>Apply and extend previous understandings of division to divide unit fractions by whole numbers and whole numbers by unit fractions.</p> | <ul style="list-style-type: none"> ● Multiply whole numbers and mixed numbers ● Multiply fractions and mixed numbers ● Multiply mixed numbers ● Multiply fractional side lengths to find areas of rectangles, and represent fraction products as rectangular areas. ● Interpret division of a unit fraction by a non-zero whole number, and compute such quotients ● Interpret division of a whole number by a unit fraction, and compute such quotients. |
| 4 | 1/30 - 2/3 | <p>Two-Dimensional Figures; Geometry and Coordinate Plane</p> <p style="text-align: center;">Geometry and Coordinate Plane</p> | <p style="text-align: center;">MGSE5.G.1</p> <p>Use a pair of perpendicular lines (axes) to define a coordinate system, the intersection of the lines (origin) arranged to coincide with the 0 on each line and a given point in the plane located by using an ordered pair of numbers (coordinates). Understand that the first number indicates how far to travel in the direction of the second axis, with the convention that the names of the two axes and the coordinates correspond.</p> <p style="text-align: center;">MGSE5.G.2</p> <p>Represent real world and mathematical problems by graphing points in the first quadrant of the coordinate plane, and interpret coordinate values of points in the context of the situation.</p> <p style="text-align: center;">MGSE5.OA.3</p> <p>Generate two mathematical patterns using a given rule.</p> | <ul style="list-style-type: none"> ● Define coordinate systems ● Graph points in coordinate planes and interpret ● Generate numerical patterns based on a given rule ● Complete function tables ● Form and graph ordered pairs. |

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| | | | Identify apparent relationships between corresponding terms by completing a function table or input/output table. Using the terms created, form and graph ordered pairs on a coordinate plane. | |
| 5 | 2/6 - 2/10 | Two-Dimensional Figures; Geometry and Coordinate Plane Geometry and Coordinate Plane | <p>MGSE5.G.1 Use a pair of perpendicular lines (axes) to define a coordinate system, the intersection of the lines (origin) arranged to coincide with the 0 on each line and a given point in the plane located by using an ordered pair of numbers (coordinates). Understand that the first number indicates how far to travel in the direction of the second axis, with the convention that the names of the two axes and the coordinates correspond.</p> <p>MGSE5.G.2 Represent real world and mathematical problems by graphing points in the first quadrant of the coordinate plane, and interpret coordinate values of points in the context of the situation.</p> <p>MGSE5.OA.3 Generate two mathematical patterns using a given rule. Identify apparent relationships between corresponding terms by completing a function table or input/output table. Using the terms created, form and graph ordered pairs on a coordinate plane.</p> | <ul style="list-style-type: none"> ● Define coordinate systems ● Graph points in coordinate planes and interpret ● Generate numerical patterns based on a given rule ● Complete function tables ● Form and graph ordered pairs. |
| 6 | 2/13 - 2/17 3B 2/17 Common Assessment | Two-Dimensional Figures; Geometry and Coordinate Plane Two-Dimensional Figures | <p>MGSE5.G.3 Understand that attributes belonging to a category of two-dimensional figures also belong to all subcategories of that category (Ex. all rectangles have four right angles and squares are rectangles, so all squares have four right angles)</p> | <ul style="list-style-type: none"> ● Know the attributes of 2D figures ● Classify 2D figures |

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| | | | MGSE5.G.4 Classify two-dimensional figures in a hierarchy based on properties (polygons, triangles, and quadrilaterals) | |
| 7 | 2/20 - 2/24 | Line Plots | MGSE5.MD.2 Make a line plot to display a data set of measurements in fractions of a unit ($\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$). Use operations on fractions for this grade to solve problems involving information presented in line plots. For example, given different measurements of liquid in identical beakers, find the amount of liquid each beaker would contain if the total amount in all the beakers were redistributed equally | <ul style="list-style-type: none"> ● Make a line plot to display fraction data sets and use to solve problems. |
| 8 | 2/27 - 3/3 | Line Plots and Volume | <p style="text-align: center;">MGSE5.MD.2</p> <p>Make a line plot to display a data set of measurements in fractions of a unit ($\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$). Use operations on fractions for this grade to solve problems involving information presented in line plots. For example, given different measurements of liquid in identical beakers, find the amount of liquid each beaker would contain if the total amount in all the beakers were redistributed equally</p> <p style="text-align: center;">MGSE5.MD.3</p> <p>Recognize volume as an attribute of solid figures and understand concepts of volume measurement.</p> <p style="text-align: center;">MGSE5.MD.4</p> <p>Measure volumes by counting unit cubes, using cubic cm, cubic in, cubic ft, and improvised units.</p> <p style="text-align: center;">MGSE5.MD.5</p> <p>Relate volume to the operations of multiplication and addition</p> | <ul style="list-style-type: none"> ● Make a line plot to display fraction data sets and use to solve problems. ● Recognize and understand concepts of volume measurement. ● A cube with side length 1 unit, called a “unit cube,” is said to have “one cubic unit” of volume, and can be used to measure volume. ● A solid figure which can be packed without gaps or overlaps using n unit cubes is said to have a volume of n cubic cubes. ● Measure volume. ● Relate volume to multiplication and addition; solve problems including volume. |

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| | | | and solve real world and mathematical problems involving volume | |
| 9 | 3/6 - 3/10 | Volume and Measurement | <p>MGSE5.MD.3 Recognize volume as an attribute of solid figures and understand concepts of volume measurement.</p> <p>MGSE5.MD.4 Measure volumes by counting unit cubes, using cubic cm, cubic in, cubic ft, and improvised units.</p> <p>MGSE5.MD.5 Relate volume to the operations of multiplication and addition and solve real world and mathematical problems involving volume</p> <p>MGSE5.MD.1 Convert among different-sized standard measurement units (mass, weight, length, time, etc.) within a given measurement system (customary and metric) (e.g., convert 5cm to 0.05m), and use these conversions in solving multi-step, real-world problems.</p> | <ul style="list-style-type: none"> ● Recognize and understand concepts of volume measurement. ● A cube with side length 1 unit, called a “unit cube,” is said to have “one cubic unit” of volume, and can be used to measure volume. ● A solid figure which can be packed without gaps or overlaps using n unit cubes is said to have a volume of n cubic cubes. ● Measure volume. ● Relate volume to multiplication and addition; solve problems including volume.. |