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| GSE Fifth Grade Curriculum Map |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Unit 1 | Unit 2 | Unit 3 | Unit 4 | Unit 5 | Unit 6 | Unit 7 | Unit 8 |
| Order of Operations and Whole Numbers | Adding and Subtracting with Decimals | Multiplying and Dividing with Decimals | Adding, Subtracting, Multiplying and Dividing Fractions | 2D Figures | Volume and Measurement | Geometry and the Coordinate Plane | Show What We Know |
| 6-7 weeks | 4-5 weeks | 4-5 weeks | 5-6 weeks | 3-4 weeks | 3-4 weeks | 2-3 weeks | Up to 6 weeks |
| MGSE.5.OA. 1 MGSE.5.OA. 2 <br> MGSE.5.NBT. 1 MGSE.5.NBT. 2 MGSE.5.NBT. 5 MGSE.5.NBT. 6 | MGSE.5.NBT. 1 MGSE.5.NBT. 3 MGSE.5.NBT. 4 MGSE.5.NBT. 7 | $\begin{aligned} & \hline \text { MGSE.5.NBT. } 2 \\ & \text { MGSE.5.NBT. } 7 \end{aligned}$ | MGSE.5.NF. 1 MGSE.5.NF. 2 MGSE.5.NF. 3 MGSE.5.NF. 4 MGSE.5.NF. 5 MGSE.5.NF. 6 MGSE.5.NF. 7 MGSE.5.MD. 2 | $\begin{aligned} & \hline \text { MGSE.5.G. } 3 \\ & \text { MGSE.5.G.4 } \end{aligned}$ | MGSE.5.MD. 1 MGSE.5.MD. 2 MGSE.5.MD. 3 MGSE.5.MD. 4 MGSE.5.MD. 5 | $\begin{gathered} \hline \text { MGSE.5.G. } 1 \\ \text { MGSE.5.G. } 2 \\ \text { MGSE.5.OA. } 3 \end{gathered}$ | ALL |
| These units were written to build upon concepts from prior units, so later units contain tasks that depend upon the concepts addressed in earlier units. All units will include the Mathematical Practices and indicate skills to maintain. However, the progression of the units is at the discretion of districts. <br> *Prioritized Standards are noted in RED* |  |  |  |  |  |  |  |


Grades 3-5 Key: G=Geometry, MD=Measurement and Data, NBT= Number and Operations in Base Ten, $\mathrm{NF}=$ Number and Operations, $\mathrm{OA}=\mathrm{Operations}$ and Algebraic Thinking.

For the 2020-2021 school year, please review the learning recovery guidance document in order to plan for initial instruction that may be impacted by the remote learning period. The document can be found here.

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| $\frac{\text { Perform operations with multi-digit whole }}{\text { numbers and with decimals to hundredths. }}$ |
| :--- |
| MGSE.5.NBT.5 Fluently multiply multi- <br> digit whole numbers using the standard <br> algorithm (or other strategies demonstrating <br> understanding of multiplication) up to a 3 <br> digit by 2 digit factor. <br> MGSE.5.NBT.6. Fluently divide up to 4- <br> digit dividends and 2-digit divisors by using at <br> least one of the following methods: strategies <br> based on place value, the properties of <br> operations, and/or the relationship between <br> multiplication and division. Illustrate and <br> explain the calculation by using equations or <br> concrete models. (e.g., rectangular arrays, <br> area models) |

the relationship between addition and
subtraction; relate the strategy to a written
method and explain the reasoning used.

Example: $\frac{3}{5}$ can be interpreted as " 3 divided by 5 and as 3 shared by 5 ".
MGSE.5.NF. 4 Apply and extend previous understandings of multiplication to multiply a fraction or whole number by a fraction.
a. Apply and use understanding of multiplication to multiply a fraction or whole number by a fraction. Examples $\frac{a}{b} \times q$ as $\frac{a}{b} \times \frac{q}{1}$ and $\frac{a}{b} \times \frac{c}{d}=\frac{a c}{b d}$
b. Find the area of a rectangle with fractional side lengths by tiling it with unit squares of the appropriate unit fraction side lengths, and show that the area is the same as would be found by multiplying the side lengths.

MGSE.5.NF. 5 Interpret multiplication as scaling (resizing), by:
a. Comparing the size of a product to the size of one factor on the basis of the size of the other factor, without performing the indicated multiplication. Example $4 \times 10$ is twice as large as $2 \times 10$.
b. Explaining why multiplying a given number by a fraction greater than 1 results in a product greater than the given number (recognizing multiplication by whole numbers greater than 1 as a familiar case); explaining why multiplying a given number by a fraction less than 1 results in a product smaller than the given number; and relating the principle of fraction equivalence $a / b=$ $(n \times a) /(n \times b)$ to the effect of multiplying $a / b$ by 1 .

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## GSE Fifth Grade Expanded Curriculum Map

## Standards for Mathematical Practice

| 1 Make sense of problems and persevere in 2 Reason abstractly and quantitatively. <br> 3 Construct viable arguments and critique <br> 4 Model with mathematics. | ng them. <br> asoning of others. | 5 Use appropriate tools strategically. <br> 6 Attend to precision. <br> 7 Look for and make use of structure. <br> 8 Look for and express regularity in repeated reasoning. |  |
| :---: | :---: | :---: | :---: |
| Unit 5 | Unit 6 | Unit 7 | Unit 8 |
| 2D Figures | Volume and Measurement | Geometry and the Coordinate Plane | Show What We Know |
| Classify two-dimensional figures into categories based on their properties. <br> MGSE.5.G. 3 Understand that attributes belonging to a category of two-dimensional figures also belong to all subcategories of that category. For example, all rectangles have four right angles and squares are rectangles, so all squares have four right angles. <br> MGSE.5.G.4. Classify two-dimensional figures in a hierarchy based on properties (polygons, triangles, and quadrilaterals). | Convert like measurement units within a given measurement system. <br> 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 5 cm to 0.05 m ), and use these conversions in solving multi-step, real world problems. <br> Represent and interpret data. <br> MGSE5.MD. 2 Make a line plot to display a data set of measurements in fractions of a unit ( $1 / 2,1 / 4,1 / 8$ ). 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. Geometric Measurement: understand concepts of volume and relate volume to multiplication and division. <br> MGSE5.MD. 3 Recognize volume as an attribute of solid figures and understand concepts of volume measurement. <br> a. 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. <br> b. A solid figure which can be packed | Graph points on the coordinate plane to solve realworld and mathematical problems. <br> MGSE.5.G. 1 Use a pair of perpendicular number lines, called axes, to define a coordinate system, with the intersection of the lines (the 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, called its coordinates. Understand that the first number indicates how far to travel from the origin in the direction of one axis, and the second 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 (e.g., $x$-axis and $x$ coordinate, $y$-axis and $y$-coordinate). <br> MGSE.5.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. <br> Analyze patterns and relationships. <br> MGSE.5.OA. 3 Generate two numerical 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. | ALL |

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[^0]:    ${ }^{1}$ Students able to multiply fractions in general can develop strategies to divide fractions in general, by reasoning about the relationship between multiplication and division. But division of a fraction by a fraction is not a requirement at this grade.

