Fourth Grade Compacted Mathematics Newsletter
Marking Period 2, Part 2

| MT | Learning Goals by Measurement Topic (MT) <br> Students will be able to . . |
| :---: | :---: |
|  | - multiply a fraction by a whole number. <br> - solve word problems involving multiplying a fraction by a whole number. |
|  | - measure and sketch angles using a protractor. <br> - compose and decompose angles. <br> - use addition, subtraction, and multiplication of fractions to solve word problems involving distance, time, volume, mass, and money. |
| $\begin{aligned} & Z \\ & \text { Z } \\ & \text { E } \\ & 0 \\ & 0 \end{aligned}$ | - draw and identify lines, line segments, perpendicular lines, and parallel lines. <br> - draw and identify lines of symmetry in two-dimensional shapes. <br> - draw and identify angles, including reflex angles (more than $180^{\circ}$ ). <br> - classify triangles and other two-dimensional shapes based on angle and line properties. |


| Thinking and Academic Success Skills (TASS) |  |  |
| :---: | :---: | :---: |
|  | It is... | In mathematics, students will . . . |
|  | adding details that expand, enrich, or embellish. | - choose a strategy to multiply a fraction by a whole number and justify the choice. <br> - decide what worked and what didn't work with a particular strategy when solving word problems. |
|  | working diligently and applying effective strategies to achieve a goal or solve a problem; continuing in the face of obstacles and competing pressures. | - solve challenging fraction and geometric measurement problems using various strategies that promote a thorough understanding of concepts. |

## Fourth Grade Compacted Mathematics Newsletter

Marking Period 2, Part 2

| Learning Experiences by Measurement Topic (MT) |  |  |
| :---: | :---: | :---: |
| MT | In school, your child will . . | 旬㫛 At home, your child can ... |
|  | - apply knowledge of unit fractions $\left(\frac{1}{2}, \frac{1}{3}, \frac{1}{4}\right.$ etc.) to use repeated addition to show multiplication by a whole number. <br> Example: $\quad \frac{1}{2} \times 4=\frac{1}{2}+\frac{1}{2}+\frac{1}{2}+\frac{1}{2}=\frac{4}{2}$ <br> - multiply a fraction by a whole number to solve word problems and explain the answer. | - ask questions to solve word problems that involve multiplying a fraction by a whole number. <br> Example: In your family there are three children. Each child read 5/6 of an hour. How many total hours did everyone read? |
|  | - use a protractor to measure different types of angles. <br> - draw angles of a given measurement. <br> - discuss different ways to compose and decompose angles. <br> Example: There are many ways I could compose a $90^{\circ}$ angle. I could use any two angles that add up to $90^{\circ}$; like $30^{\circ}$ and $60^{\circ}, 10^{\circ}$ and $80^{\circ}$, or $1^{\circ}$ and $89^{\circ}$. If I use 3 or more angles, there are even more angle combinations whose sum is $90^{\circ}$. <br> - solve real world problems involving measurement and fractions. | - use a protractor to measure the angles of plane figures around the house. Draw some angles and measure them. Create a picture using the angles. <br> - ask questions to solve word problems that involve fractions and measurement. <br> Example: Bus drivers work 4 I/4 hours per day. How long do they work in five days? |
|  | - use shapes, geoboards (a wooden board with pegs) and rubber bands, pattern blocks, maps, and other materials to identify, analyze, and create geometric features. <br> - identify geometric features in solid figures. | - identify real-world examples of angles, lines, quadrilaterals and triangles. <br> - play "Guess My Rule." In this game, collect and sort everyday items and guess the rule for sorting them according to their line or angle properties. Then reverse roles. |

