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| Trimester 3 | Grade: 4 | Unit Number: 11 |
| Unit Overview: * Review grams and ounces as units of weight and mass
* Identify geometric solids, given their properties
* Review concepts and units of capacity and volume
* Introduce subtraction involving positive and negative integers
 |
| Essential Question: How is the metric system different from the US system? |
| Academic Vocabulary: Metric units, standard units, fraction, decimal, scale, unit, area, perimeter, formula, line plot, remainder, estimation, rounding |
| Lesson | Standard | Guiding Questions | Additional Resources  | Differentiation  | Student Learning Goals |
| 11.1 | **4.MD.1****4.MD.2** | What might happen if you used this tool incorrectly? |  |  | I can…* Solve multi-step word problems with whole numbers using the four operations.
* Interpret remainders in word problems.
* Write equations using a variable to represent the unknown quantity.
* Check my answers using mental computation and estimation strategies, including rounding.

4.OA.3* Describe the relative size of measurement units (e.g. km, m, cm; kg, g; lb, oz; l, ml; hr, min, sec).
* Represent a larger unit as a multiple of smaller units within the same system of measurement and record the equivalent measures in a two-column table (e.g. 1 foot = 12 inches, 2 feet = 24 inches, 3 feet = 36 inches).

4.MD.1* Represent measurements using diagrams such as a number line that features a measurement scale.
* Use the four operations to solve word problems involving measurements.
* Convert a measurement given in a larger unit into an equivalent measurement in smaller units in order to solve a problem.

4.MD.2* Use the formulas for area and perimeter to solve real world problems.

4.MD.3* Create a line plot with a given data set of measurements using fractions as a unit.
* Use the information on the line plot to solve addition and subtraction problems.

4.MD.4 |
| 11.2 |  | How could other students’ examples help you recognize 3-dimensional shapes in real life? |  |  |
| 11.3  | 4.NF.3c 4.NF.3d4.NF.4a 4.NF.4b**4.MD.4** | Why is it important to identify properties of shapes? |  |  |
| 11.4  | 4.NBT.3**4.MD.1** | When have you needed to know the volume of something in your life? |  |  |
| 11.5 | **4.MD.3** | Why is it helpful to explain what formulas mean? |  |  |
| 11.6 |  | Why do you think these are called shortcuts? |  |  |
| 11.7 | **4.OA.3** 4.NF.4a4.NF.4b **4.MD.1****4.MD.2** | How do examples of liquid amounts help you learn the differences between liters and milliliters? |  |  |
| Assessment: Progress Check Unit 11 |