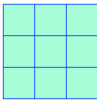
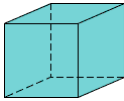



Grade 6 Mathematics Unit Preview Quarter 3: Measurement

Objectives: (Your student will be able to)

- **Identify and calculate equivalent units within the same system.** For example, 4 quarts = 1 gallon.
- **Determine the perimeter** ($P = \text{sum of all sides}$) **and area** ($A = \text{length} \times \text{width}$) **for regular and irregular figures (using partitioning for irregular figures).**
- **Explain what happens to the perimeter and area of a two-dimensional figure when one of the measurements changes.**
- **Estimate and determine elapsed time to solve real life problems.**
- **Determine the volume of a rectangular prism, cube, and cylinder.** For example, a rectangular prism has the dimensions: length = 8 cm, width = 2 cm, height = 1 cm. Volume = length \times width \times height ($l \times w \times h$) so $V = 8\text{m} \times 2\text{ cm} \times 1\text{ cm} = 16\text{ cubic cm}$.
- **Select an appropriate tool/unit for measuring length, weight, temperature, time, capacity, volume, and size of angle.**

Vocabulary: (Words your student will need to understand)

<p>• Area: The number of square units needed to cover a surface.</p>  <p>The area is 9 square units.</p>	<p>• Cube: A solid figure with six congruent square faces.</p> 
<p>• Cylinder: A solid figure with two parallel bases that are congruent circles.</p> 	<p>• Elapsed time: The difference between two times. The amount of time that has passed.</p>
<p>• Perimeter: The distance around a figure.</p>	<p>• Volume: The measure of the amount of space a solid figure occupies.</p>

Activities to do with your student (in addition to homework, optional):

- Find the area of real-world objects in your home.
- Find the volume of real-world objects in your home.
- Use grid paper to create irregular polygons. Find the area and perimeter of these polygons. Explain how the area was found.
- Record the start and end time of events and identify the elapsed time of those events

