

**Content Standard A2  
Seventh Grade Level  
Measurement**

*A student will understand mathematical facts, concepts, principles, and theories. They select and use appropriate systems, units, tools of measurement including estimation.*

State Mathematics Performance Standards 6 <sup>th</sup> -8 <sup>th</sup>	KGBSD Performance Standards	State Grade Level Expectations (GLE's)
<p>M2.3.1 Estimate and measure various dimensions to a specified degree of accuracy.</p> <p>M2.3.2 Estimate and convert measurements within the same system.</p> <p>M2.3.3 Use a variety of methods and tools to construct and compare plane figures.</p> <p>M2.3.4 Describe and apply the relationships between dimensions of geometric figures to solve problems using indirect measurement; describe and apply the concepts of rate and scale.</p> <p>M2.3.5 Apply information about time zones and elapsed time to solve problems.</p>	<p>1.1 Estimate and measure lengths of common objects using appropriate measures. Measure angles to within 2 degrees</p> <p>2.1 Estimate and convert measurements of time and common units of distance and volume in the same system using appropriate units</p> <p>3.1 Make and compare triangles based on angles and sides</p> <p>4.1 Describe and apply the relationships between dimensions of geometric figures</p> <p>4.2 Use a scale factor to find missing dimensions of similar figures</p> <p>5.1 Apply information about time zones and elapsed time to solve problems involving adding and subtracting units of time</p>	<p><b><u>Measurement: Measurable Attributes</u></b> <b>The student demonstrates understanding of measurable attributes by</b></p> <p>[7] <b>MEA-1</b> [estimating length to the nearest sixteenth of an inch or millimeter, volume to the nearest cubic centimeter or milliliter or angle to the nearest 30 degrees L] (M2.3.1)</p> <p>[7] <b>MEA-2</b> identifying or using equivalent English (square inches, square feet, square yards) or metric systems (square centimeters, square meters) (M2.3.2)</p> <p><b><u>Measurement: Measurement Techniques</u></b> <b>The student uses measurement techniques by</b></p> <p>[7] <b>MEA-3</b> applying a given scale factor to find missing dimensions of similar figures (M2.3.4)</p> <p>[7] <b>MEA-4</b> measuring various dimensions to one-sixteenth of an inch or millimeter (M2.3.1)</p> <p>[7] <b>MEA-5</b> accurately measuring a given angle using a protractor to the nearest plus or minus 2 degrees (M2.3.1)</p> <p>[7] <b>MEA-6</b> solving real-world problems involving elapsed time between world time zones (M2.3.5)</p>