

Core Content

Cluster Title: Describe and compare measurable attributes.
Standard 1: Describe measurable attributes of objects, such as length or weight. Describe several measurable attributes of a single object.
MASTERY Patterns of Reasoning:
<p>Conceptual: Students will understand that objects differ in their attributes (length, width, capacity and weight). Students will understand that objects can be measured using different attributes.</p> <p>Procedural: Students can identify the different attributes of an object (length, width, and weight). Students can use measurement vocabulary. Students can identify what attributes of an object can be measured. Students can describe measurable attributes of objects, such as length or weight. Students can describe several measurable attributes of a single object.</p> <p>Representational: Students can tell the teacher what attributes can be measured when given an object. Students can use measurement vocabulary when talking about an object. Students can represent measurable attributes with drawings or manipulatives.</p>

Supports for Teachers

Critical Background Knowledge
<p>Conceptual: Students will understand that objects have different measurable attributes (size, length, weight).</p> <p>Procedural: Students can use a basis measurement vocabulary (e.g., length [long/short], weight [heavy/light], size [big/small], and distance [near/far]). Students can compare objects using measurable attributes (e.g., length [long/short], weight [heavy/light], size [big/small], and distance [near/far]).</p>

<p>Representational: Students can represent the comparison of objects by size (big/small).</p>	
<p>Academic Vocabulary and Notation length, width, capacity, weight, measuring, size, attribute, measurable</p>	
<p>Instructional Strategies Used</p>	
<p>Teacher will show an object and ask students to describe the object.</p> <p>Teacher will ask the students if there is anyway to measure the object, discussing different attributes that are measurable.</p> <p>Teacher will pair students up and given them an object. Students will discuss and draw the measurable attributes of the object.</p>	
<p>Resources Used</p> <p>Boxes and other objects that differ in their attributes for students to discuss.</p> <p>Pluckrose, Harry. <i>Length (Math Counts)</i>. Children’s Press, 1995.</p> <p>Pluckrose, Harry. <i>Weight (Math Counts)</i>. Children’s Press, 1995.</p>	
<p>Assessment Tasks Used</p>	
<p>Skill-Based Task: When given an object, the student can show/tell the teacher at least two ways of measuring the object.</p>	<p>Problem Task: Students can pick an object in the classroom and describe the measurable attributes of the object.</p>