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:

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.

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.

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.

Supports for Teachers

Critical Background Knowledge

Conceptual:
- Students will understand that objects have different measurable attributes (size, length, weight).

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]).
**Representational:**  
Students can represent the comparison of objects by size (big/small).

**Academic Vocabulary and Notation**  
length, width, capacity, weight, measuring, size, attribute, measurable

<table>
<thead>
<tr>
<th>Instructional Strategies Used</th>
<th>Resources Used</th>
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<tbody>
<tr>
<td>Teacher will show an object and ask students to describe the object.</td>
<td>Boxes and other objects that differ in their attributes for students to discuss.</td>
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| Teacher will ask the students if there is anyway to measure the object, discussing different attributes that are measurable. | Pluckrose, Harry. *Length (Math Counts).*  
| Teacher will pair students up and given them an object. Students will discuss and draw the measurable attributes of the object. | Pluckrose, Harry. *Weight (Math Counts).*  

**Assessment Tasks Used**

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<thead>
<tr>
<th>Skill-Based Task:</th>
<th>Problem Task:</th>
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<tr>
<td>When given an object, the student can show/tell the teacher at least two ways of measuring the object.</td>
<td>Students can pick an object in the classroom and describe the measurable attributes of the object.</td>
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