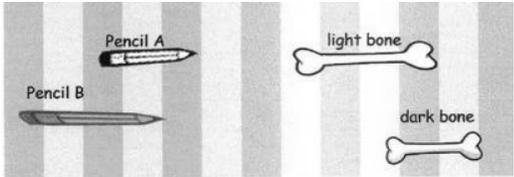


<p>3rd Grade</p> 	<p>Exploratory lessons in 3rd grade have students measuring using kilograms, grams, liters, and milliliters. Building on the estimation skills with metric length gained in Grade 2, students in Grade 3 estimate the weights and liquid volumes of familiar objects.</p>	
<p>2nd Grade</p> 	<p>Students engage in activities designed to deepen their conceptual understanding of measurement and to relate addition and subtraction to length. Working with metric units support place value concepts (customary units are introduced later in the year). By measuring a variety of objects, students build a bank of known measurements or benchmark lengths, such as a doorknob being a meter from the floor, or the width of a finger being a centimeter.</p>	<p>Line E _____</p> <p>Line F _____</p> <p>Line G _____</p> <p>a. Line E is <u>4</u> cm. Line F is <u>7</u> cm. Line G is <u>8</u> cm.</p> <p>b. Lines E, F, and G are about <u>19</u> cm combined. $4 + 7 + 8 = 19$</p> <p>c. Line E is about <u>3</u> cm shorter than Line F.</p> <p>d. Line G is about <u>1</u> cm longer than Line F.</p>
<p>1st Grade</p> 	<p>First grade is about extending students' Kindergarten experiences with direct length comparison to the new learning of indirect comparison whereby the length of one object is used to compare the lengths of two other objects. "My string is longer than your book. Your book is longer than my pencil. That means my string is longer than my pencil."</p>	 <p>Pencil B is <u>longer than</u> Pencil A.</p> <p>The dark bone is <u>shorter than</u> the light bone.</p> <p>Circle true or false.</p> <p>The light bone is shorter than Pencil A. True or <u>False</u></p>
<p>Kindergarten</p> 	<p>Students compare and analyze length, weight, capacity, along with numbers. Students use language such as <i>longer than</i>, <i>shorter than</i>, <i>as long as</i>; <i>heavier than</i>, <i>lighter than</i>, <i>as heavy as</i>; and <i>more than</i>, <i>less than</i>, <i>the same as</i>.</p>	<p>For each pair, circle the shorter one.</p> 