Grade: 4 Subject: Mathematics	Unit 12: The US Customary System
Big Idea/Rationale:	• In this unit students build on their understanding of measuring distance, area, volume, weight, capacity, time, and temperature using the customary system. They will apply the skills to real-world situations and develop their abilities to estimate a variety of measurements and to use this information to solve problems.
Enduring Understanding (Mastery Objective):	<ul> <li>Students will understand that:</li> <li>Some measurements can be approximated using known references as the unit in the measurement process?</li> <li>Everyday objects have a variety of attributes, each of which can be measured in many ways.</li> <li>What we measure affects how we measure it.</li> <li>Measurement can used be describe, compare, and make sense of phenomena.</li> </ul>
Essential Questions (Instructional Objective):	<ul> <li>How can measurement be used to solve a problem?</li> <li>How do you estimate the area and capacity of objects and figures?</li> <li>What customary units describe how much a container holds?</li> <li>How do you measure to the fraction of an inch?</li> <li>How can you estimate and measure length?</li> <li>What customary units describe how heavy something is?</li> <li>How can you measure the passing of time?</li> <li>What is used to measure temperature?</li> </ul>
Content (Subject Matter & Learning Objectives):	<ul> <li>Apply knowledge of customary units of length and distance.</li> <li>Write fractions of units of length and distance.</li> <li>Apply customary units of square and cubic measurement to real-world measuring experiences.</li> <li>Understand and use customary units of weight.</li> <li>Understand everyday measurement with ounces, cups, pints, quarts, and gallons.</li> <li>Apply fractions of units of capacity in measurement tasks.</li> <li>Understand fractional parts of hours and word representations of those parts.</li> <li>Review elapsed time and the meaning of temperature readings.</li> </ul>
Standards	<ul> <li>4MD.A.1: Knowing relative sizes of measurement units within one system of units including km, m, cm; kg, g; lb, oz; l, ml; hr, min, sec. Within a single system of measurement, express measurements in a larger unit in terms of a smaller unit. Record measurement equivalents in a two column table.</li> <li>4MD.A.2: Use the four operations to solve word problems involving distances, intervals of time, liquid volumes, masses of objects, and money,</li> </ul>

	<ul> <li>including problems involving simple fractions or decimals, and problems that require expressing measurements given in a larger unit in terms of a smaller unit. Represent measurement quantities using diagrams such as number line diagrams that feature a measurement scale.</li> <li>4MD.A.3: Apply the area and perimeter formulas for rectangles in real world and mathematical problems.</li> <li>Mathematical Practices</li> </ul>
Materials and	• Math Expressions, Student Journals, Manipulatives, Math themed literature,
Resources	BrainPop, IXL Mathematics