



## Elementary Mathematics Pre-Advanced Placement Grade 5th

### 4th 6 Weeks - Length, Perimeter, and Area; Volume, Capacity, Weight, and Mass; Converting Measurements; Time and Temperature; Graphs and Data

TEKS	Essential Understanding	Vocabulary	Guiding Questions
<p><b>5.10 The student applies measurement concepts involving length (including perimeter), area, capacity/volume, and weight/mass to solve problems. The student is expected to:</b></p> <p>(A) perform simple conversions within the same measurement system (SI (metric) or customary);</p> <p>(B) connect models for perimeter, area, and volume with their respective formulas; and</p> <p>(C) select and use appropriate units and formulas to measure length, perimeter, area, and volume.</p> <p><b>5.11 The student applies measurement concepts. The student measures time and temperature (in degrees Fahrenheit and Celsius). The student is expected to:</b></p> <p>(A) solve problems involving changes in temperature; and</p> <p>(B) solve problems involving elapsed time</p>	<p>Some attributes of objects are measurable and can be quantified using unit amounts.</p> <p>Some measurements can be approximated using known referents as the unit in the measurement process.</p> <p>Some attributes of objects are measurable and can be quantified using unit amounts.</p> <p>Some measurements can be approximated using known referents as the unit in the measurement process.</p> <p>Rules of arithmetic and algebra can be used together with notions of equivalence to transform equations and inequalities so solutions can be found.</p> <p>Some attributes of objects are measurable and can be quantified using unit amounts.</p>	<p>Meter Centimeter Millimeters Kilometers Perimeter Formula Area Base Height volume cubic unit capacity quart pint gallon cup fluid ounce milliliter liter weight ounce pound ton mass milligram gram kilogram elapsed time end time start time Fahrenheit Celsius</p>	

On-Going Practices 5.14 A/B/C/D, 5.15 A/B, 5.16 A/B

5th graders must be able to solve problems of everyday situations; explain and record observations; make generalizations and justify answers.