



Grade 7

## As PA transitions to the PA Core Standards, the focus of Grade 7 instruction needs to shift:

Less emphasis on:	More emphasis on:
	<ul> <li>Standards for Mathematical Practice</li> <li>Describe mathematical "habits of mind"</li> <li>Standards for mathematical proficiency: reasoning, problem solving, modeling, decision making, and engagement</li> <li>Connect with content standards in each grade</li> </ul>
<ul> <li>Numbers &amp; Operations</li> <li>Representing and using numbers in equivalent forms</li> <li>Modeling and comparing rational numbers</li> <li>Applying place value concepts, GCF and LCM</li> <li>Operations with integers</li> <li>Using order of operations</li> <li>Estimating solutions</li> </ul>	<ul> <li>Numbers &amp; Operations</li> <li>Analyzing proportional relationships</li> <li>Representing proportional relationships by equations</li> <li>Using proportional relationships to solve multistep problems</li> <li>Unit rates associated with fractions</li> <li>Operations with rational numbers</li> <li>Convert rational numbers to a decimal using long division</li> </ul>
<ul> <li>Measurement</li> <li>Using conversions to add &amp; subtract</li> </ul>	<u>Measurement</u>
<ul> <li>Geometry</li> <li>Properties of 1-, 2-, and 3-dimensional shapes and classifying 2- and 3-dimensional shapes</li> <li>Predicting the result of a translation, rotation and/or reflection</li> <li>Locating/plotting points on the coordinate plane</li> <li>Predicting the result of a translation, rotation and/or reflection</li> </ul>	<ul> <li>Geometry</li> <li>Real life mathematical problems involving angle measure, area, surface area, and volume.</li> <li>Knowing the formulas for area &amp; circumference of a circle and use them to solve problems</li> <li>Reproducing scale drawings using a different scale</li> <li>Using scale drawing to compute actual lengths and areas</li> </ul>

The purpose of this document is to provide a summary of changes in emphasis as Pennsylvania transitions from the PA Academic Standards to the PA Core Standards. This is not intended to be a curriculum guide or is it inclusive of all grade levels standards - only to identify shifts in emphasis of instruction.





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<ul> <li>Algebraic Concepts</li> <li>Properties of numbers (Commutative, Associative, Identity, Distributive)</li> <li>Extending/finding a missing element of a pattern</li> <li>Determining function rules from patterns</li> <li>Describing the relationship of data involving constant rate of change</li> </ul>	<ul> <li>Algebraic Concepts</li> <li>Using properties of operations to write equivalent expressions</li> <li>Solving multi-step, real-life mathematical problems using rational numbers</li> <li>Solving word problems using equations and inequalities</li> </ul>
<ul> <li>Data Analysis &amp; Probability</li> <li>Organizing and analyzing data in different types of displays</li> <li>Interpreting trends based on a graph</li> <li>Finding the probability of simple events</li> </ul>	<ul> <li>Data Analysis &amp; Probability</li> <li>Using random sampling to draw inferences</li> <li>Measure of center and variability with random samples</li> <li>Drawing informal comparative inferences about two populations</li> <li>Developing, using and evaluating probability models</li> <li>Finding the probability of compound events</li> </ul>

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