

## Grade 1

**As PA transitions to the PA Core Standards, the focus of Grade 1 instruction needs to shift:**

Less emphasis on:	More emphasis on:
	<p><b>Standards for Mathematical Practice</b></p> <ul style="list-style-type: none"> <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>
<p><b>Numbers &amp; Operations</b></p> <ul style="list-style-type: none"> <li>Use concrete objects, drawings, diagrams or models to show the concept of a fraction as part of a whole</li> <li>Estimate before solving</li> </ul>	<p><b>Numbers &amp; Operations</b></p> <ul style="list-style-type: none"> <li>Count to 120 starting at any number</li> <li>Read and write numerals to 120</li> <li>Solve addition and subtraction word problems</li> <li>Fact fluency with addition and subtraction within 20.</li> <li>Understand and apply properties of operations to addition and subtraction (commutative, associative)</li> </ul>
<p><b>Measurement</b></p> <ul style="list-style-type: none"> <li>Compare weight and capacity of objects</li> </ul>	<p><b>Measurement</b></p> <ul style="list-style-type: none"> <li>Indirectly measure and compare lengths.</li> </ul>
<p><b>Geometry</b></p> <ul style="list-style-type: none"> <li>Identify and draw lines of symmetry</li> </ul>	<p><b>Geometry</b></p> <ul style="list-style-type: none"> <li>Decompose shapes into equal parts (halves, quarters)</li> <li>Compose 2- and 3-dimensional composite shapes</li> </ul>
<p><b>Algebraic Concepts</b></p> <ul style="list-style-type: none"> <li>Number and geometric patterns</li> <li>Use a rule to find a missing addend or symbol to make a number sentence true, with adult assistance.</li> <li>Use concrete objects, symbols and</li> </ul>	<p><b>Algebraic Concepts</b></p> <ul style="list-style-type: none"> <li>Determine if addition and subtraction equations are true or false</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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<p>numbers to represent mathematical situations.</p>	
<p><b><u>Data Analysis &amp; Probability</u></b></p> <ul style="list-style-type: none"> <li>• Gather data, draw conclusions and identify patterns based on data displayed in a graph.</li> <li>• Probability, predictions and outcomes</li> <li>• List or graph the possible results of an experiment</li> </ul>	<p><b><u>Data Analysis &amp; Probability</u></b></p>

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