As PA transitions to the PA Core Standards, the focus of Grade 2 instruction needs to shift:

<table>
<thead>
<tr>
<th>Less emphasis on:</th>
<th>More emphasis on:</th>
</tr>
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</table>
| **Standards for Mathematical Practice**  
  - Describe mathematical “habits of mind”  
  - Standards for mathematical proficiency: reasoning, problem solving, modeling, decision making, and engagement  
  - Connect with content standards in each grade |  
  **Numbers and Operations**  
  - Developing understanding of fractions  
  - Representing equivalent forms of the same number in various ways  
  - Developing an understanding of mathematical properties.  
  - Ordering whole numbers.  
  - Estimation of values, sums, and differences |
| **Numbers and Operations**  
  - Developing thorough understanding of base ten numbers through thousands place  
  - Comparing base ten numbers (up to 3-digit) using symbols >, <, =  
  - Using concrete models or drawings, and strategies based on place value understanding and properties of operations to add and subtract within 1000  
  - Developing a thorough understanding of and ability to explain why addition and subtraction work.  
  - Developing the foundations for multiplication using addition modeled in rectangular arrays and work with equal groups of objects.  
  - Mentally add or subtract 10 or 100 to given numbers 100 – 900. |  
  **Measurement**  
  - Demonstrating different measurement attributes |  
  **Measurement**  
  - Relating addition and subtraction within 100 to solving word problems involving measurement of lengths.  
  - Relating whole numbers as lengths from 0 on a number line diagram.  
  - Solving word problems involving money (dollar bills, quarters, dimes, nickels, pennies. |

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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<tbody>
<tr>
<td>Geometry</td>
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<tr>
<td>• Finding lines of symmetry.</td>
<td>• Reasoning with shapes through the partitioning of rectangles and circles into equal shares.</td>
</tr>
<tr>
<td>Algebraic Concepts</td>
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<tr>
<td>• Using rules, patterns, or concrete objects to find missing elements in an addition or subtraction number sentence.</td>
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<tr>
<td>Data Analysis and Probability</td>
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<tr>
<td>• Working with probability of events and predicting outcomes.</td>
<td>• Representing and interpreting data gathered from measuring lengths of several objects</td>
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<tr>
<td>• Graphing and analyzing data and results of an experiment.</td>
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