As PA transitions to the PA Core Standards, the focus of Grade 3 instruction needs to shift:

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<th>Less emphasis on:</th>
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<tr>
<td><strong>Numbers and Operations</strong></td>
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| - Counting and place value | - Multiplication and division  
  o Understanding what multiplication and division means  
  o Use of properties and strategies in multiplying and dividing |
| - Addition and subtraction without regrouping | - Addition and subtraction using place value strategies and properties for multi-digit numbers |
| - Fluency in basic facts – addition and subtraction | - Using properties and strategies to solve problems, not just memorizing facts or procedures |
| - Money - separate from solving word problems | - Estimation as one way of determining reasonableness of answers |
| - Estimation in of itself | - Understanding fractions as numbers (denominators of 2, 3, 4, 6, and 8)  
  o Express whole numbers as fractions  
  o Compare fractions by reasoning about their size, not using common denominators  
  o Equivalent fractions  
  o Represent fractions on number line |
| - Creating story problems | - Measurement |
| - Ordering quantities | - Measuring in 1/2 and 1/4 inches to gather data to display in line plots |
| **Measurement** | - Measurement  
  - Area and its relation to multiplication and addition |

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.

Jan 2016
Grade 3

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**Geometry**
- Symmetry
- Locations of points
- Right angles
- Relationships between and among shapes, e.g., rectangles and rhombuses have 4 sides, both are quadrilaterals

**Algebraic Concepts**
- Odd and even number patterns
- Use of a letter to stand for an unknown quantity in solving word problems with 4 operations
- Identifying arithmetic patterns

**Data Analysis and Probability**
- Gathering data from surveys
- Probability
- Probability

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