

Grade 2

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

Less emphasis on:	More emphasis on:
	<p>Standards for Mathematical Practice</p> <ul style="list-style-type: none"> Describe mathematical "habits of mind" Standards for mathematical proficiency: reasoning, problem solving, modeling, decision making, and engagement Connect with content standards in each grade
<p>Numbers and Operations</p> <ul style="list-style-type: none"> 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 	<p>Numbers and Operations</p> <ul style="list-style-type: none"> 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.
<p>Measurement</p> <ul style="list-style-type: none"> Demonstrating different measurement attributes 	<p>Measurement</p> <ul style="list-style-type: none"> 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).

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Less emphasis on:	More emphasis on:
<p><u>Geometry</u></p> <ul style="list-style-type: none"> Finding lines of symmetry. 	<p><u>Geometry</u></p> <ul style="list-style-type: none"> Reasoning with shapes through the partitioning of rectangles and circles into equal shares.
<p><u>Algebraic Concepts</u></p> <ul style="list-style-type: none"> Using rules, patterns, or concrete objects to find missing elements in an addition or subtraction number sentence. 	<p><u>Algebraic Concepts</u></p>
<p><u>Data Analysis and Probability</u></p> <ul style="list-style-type: none"> Working with probability of events and predicting outcomes. Graphing and analyzing data and results of an experiment. 	<p><u>Data Analysis and Probability</u></p> <ul style="list-style-type: none"> Representing and interpreting data gathered from measuring lengths of several objects

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