

Grade 4

As PA transitions to the PA Core Standards, the focus of Grade 4 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 & Operations</p> <ul style="list-style-type: none"> • Operations with decimals • Fluency in the use of basic facts for the four operations • Estimation prior to solving 	<p>Numbers & Operations</p> <ul style="list-style-type: none"> • Fractions <ul style="list-style-type: none"> ○ Decomposing ○ Addition and subtraction (including mixed numbers) ○ Multiply a fraction by a whole number ○ Decimal notation ○ Equivalence, comparing & ordering • Factors and multiple to 100
<p>Measurement</p> <ul style="list-style-type: none"> • Time and elapsed time • Estimate measurements 	<p>Measurement</p> <ul style="list-style-type: none"> • Conversions of measurements • Measuring angles with a protractor • Identify types of angles (acute, right, obtuse)

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><u>Geometry</u></p> <ul style="list-style-type: none"> Plotting, locating or identifying points in a 2- dimensional coordinate system 	<p><u>Geometry</u></p> <ul style="list-style-type: none"> Classify shapes by properties of their lines and angles
<p><u>Algebraic Concepts</u></p> <ul style="list-style-type: none"> Commutative, associative, and identity properties. Functions Writing or describing expressions, equations, and inequalities 	<p><u>Algebraic Concepts</u></p>
<p><u>Data Analysis & Probability</u></p> <ul style="list-style-type: none"> Predicting and calculating mean of data shown in tables, charts, diagrams, and graphs Chance, probability and outcomes 	<p><u>Data Analysis & Probability</u></p> <ul style="list-style-type: none"> Create line plots to display linear measurements

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