

Grade 4

**As PA transitions to the PA Common 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 (CC.2.1.4.B.1) <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 (CC.2.1.4.C.3)
<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 (CC.2.4.4.A.1) • Measuring angles with a protractor (CC.2.4.4.A.6) • Identify types of angles (acute, right, and obtuse) (CC.2.3.4.A.1)
<p>Geometry</p> <ul style="list-style-type: none"> • Plotting, locating or identifying points in a 2-dimensional coordinate system 	<p>Geometry</p> <ul style="list-style-type: none"> • Classify shapes by properties of their lines and angles (CC.2.3.4.A.3)

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<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 (CC.2.4.4.A.4)

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