Grade Level 6

As PA transitions to the PA Common Core Standards, the focus of GRADE 6 instruction needs to shift:

Less emphasis on:	More emphasis on:
	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 • Modeling and comparing values of whole numbers, mixed numbers, fractions and decimals • Representing whole numbers, fractions, mixed numbers, decimals, and percents in equivalent forms • Applying place value concepts to order and compare decimals, fractions, and mixed numbers • Applying properties to evaluate numerical expressions • Estimating solutions of problems involving whole numbers and decimals	**Numbers and Operations** • Computing fluently with multi-digit numbers and finding common factors and common multiples (CC.2.1.6.E.2). • Extending previous understandings of arithmetic to algebraic expressions and applying the properties of operations to generate equivalent expressions (CC.2.2.6.B.1). • Using visual models to conceptualize multiplying and dividing fractions (CC.2.1.6.E.1). • Developing an understanding of statistical variability/ Ratio concepts/ratio reasoning to solve real world problems/ratio relationships/equivalent ratio tables/plotting on coordinate plane/solving unit rate problems (CC.2.1.6.D.1).
Measurement • Measuring length, perimeter, area; measuring angles with a protractor in isolation • Converting metric and customary measurements	**Measurement** • Using nets to find surface area and applying in a real-world context (CC.2.3.6.A.1). • Using ratio reasoning to convert measurement units (CC.2.1.6.D.1).
Geometry • Identifying and classifying 1,2, and 3 dimensional shapes • Predicting and describing translations, rotations, and	**Geometry** • Understanding signs of numbers of 3 dimensional shapes in four quadrants of the coordinate plane (CC.2.3.6.A.1). • Finding areas of geometric shapes through composition and decomposition in the context of real-world problems

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reflections • Identifying location of points on a 2-dimensional coordinate system • Identifying parts of right triangles	(CC.2.3.6.A.1). • Using coordinates in the coordinate plane to find the length of a side of a polygon (CC.2.3.6.A.1).
Algebraic Concepts • Forming a rule for whole number patterns/Determining a function rule from a table or graph	**Algebraic Concepts** • Writing and evaluating numerical expressions involving whole-number exponents, using variables, and order of operations in the context of real-world problems (CC.2.2.6.B.2). • Reasoning about and solving one-variable equations and inequalities/Using substitution (CC.2.2.6.B.3). • Applying and extending previous understandings of numbers to the system of rational numbers (i.e. positive and negative numbers in the real world (CC.2.1.6.E.4). • Ordering rational numbers in the real world (CC.2.1.6.D.1). • Understanding absolute value/positive and negative numbers/rational numbers conceptually (CC.2.1.6.E.4).
Data Analysis & Probability • Probability and Predictions: Estimating outcomes and likelihood • Gathering and selecting an appropriate format to display data	**Data Analysis & Probability** • Recognizing statistical variability (CC.2.4.6.B.1). • Analyzing the overall shape of data and its meaning (CC.2.4.6.B.1). • Analyzing the measures of center and measures of variation (CC.2.4.6.B.1).

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