As PA transitions to the PA Common Core Standards, the focus of GRADE 7 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 & Operations • Representing and using numbers in equivalent forms • Modeling and comparing rational numbers • Applying place value concepts, GCF and LCM • Operations with integers • Using order of operations • Estimating solutions	**Numbers & Operations** • Analyzing proportional relationships and represent proportional relationships by equations (CC.2.1.7.D.1) • Using proportional relationships to solve multi-step problems (CC.2.1.7.D.1) • Unit rates associated with fractions (CC.2.1.7.E.1) • Operations with rational numbers (CC.2.1.7.E.1) • Convert rational numbers to a decimal using long division (CC.2.1.7.E.1)
Measurement • Using conversions to add & subtract	**Measurement**
Geometry • Properties of 1-, 2-, and 3-dimensional shapes and classifying 2- and 3-dimensional shapes • Predicting the result of a translation, rotation and/or reflection • Locating/plotting points on the coordinate plane • Predicting the result of a translation, rotation	**Geometry** • Real life mathematical problems involving angle measure, area, surface area, and volume (CC.2.3.7.A.1) • Knowing the formulas for area & circumference of a circle and use them to solve problems (CC.2.3.7.A.2) • Reproducing scale drawings using a different

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and/or reflection	scale (CC.2.3.7.A.2) • Using scale drawing to compute actual lengths and areas (CC.2.3.7.A.2)
Algebraic Concepts • Properties of numbers (commutative, Associative, identity, distributive) • Extending/finding a missing element of a pattern • Determining function rules from patterns • Describing the relationship of data involving constant rate of change	**Algebraic Concepts** • Using properties of operations to write equivalent expressions (CC.2.2.7.B.1) • Solving multi-step, real-life mathematical problems using rational numbers (CC.2.2.7.B.2) • Solving word problems using equations and inequalities (CC.2.2.7.B.2)
Data Analysis & Probability • Organizing and analyzing data in different types of displays • Interpreting trends based on a graph • Finding the probability of simple events	**Data Analysis & Probability** • Using random sampling to draw inferences (CC.2.4.7.B.1) • Measure of center and variability with random samples (CC.2.4.7.B.2) • Drawing informal comparative inferences about two populations (CC.2.4.7.B.2) • Developing, using and evaluating probability models (CC.2.4.7.B.3) • Finding the probability of compound events (CC.2.4.7.B.3)

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