



Grade 7

As PA transitions to the PA 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 Representing proportional relationships by equations Using proportional relationships to solve multistep problems Unit rates associated with fractions Operations with rational numbers Convert rational numbers to a decimal using long division |
| Measurement Using conversions to add & subtract | <u>Measurement</u> |
| 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 and/or reflection | Geometry Real life mathematical problems involving angle measure, area, surface area, and volume. Knowing the formulas for area & circumference of a circle and use them to solve problems Reproducing scale drawings using a different scale Using scale drawing to compute actual lengths and areas |

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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| 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 Solving multi-step, real-life mathematical problems using rational numbers Solving word problems using equations and inequalities |
| 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 Measure of center and variability with random samples Drawing informal comparative inferences about two populations Developing, using and evaluating probability models Finding the probability of compound events |

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