

Grade 5

As PA transitions to the PA Common Core Standards, the focus of GRADE 5 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 and Operations</p> <ul style="list-style-type: none"> Developing understanding integers, fractions, or percents Developing understandings of equality as it relates to specific properties (e.g. Distributive) Using various strategies, including use of concrete objects, to solve equations and inequalities Recognizing, describing, creating, and extending patterns and forming a rule for patterns Determining a functional rule from a table or graph Understanding number theory concepts (e.g. primes, factors, multiples, composites) Limited computation with fractions Rounding and estimation in operations 	<p>Numbers and Operations</p> <ul style="list-style-type: none"> Developing a depth of understanding of the place value system in working with base ten numbers to the thousandths (CC.2.1.5.B.1) Developing understanding of patterns in the number of zeros in numbers when multiplying or dividing by powers of ten (CC.2.1.5.B.1) Writing and interpreting numerical expressions including use of parentheses, brackets, or braces (CC.2.2.5.A.1) Writing and interpreting simple expressions without evaluating them, understanding relative comparisons of expressions (CC.2.2.5.A.1) Generating two numerical patterns given two different rules, identifying relationships between corresponding terms, and graphing the ordered pairs (CC.2.2.5.A.4) Multiplying multi-digit numbers with decimals through hundredths (CC.2.1.5.B.2) Demonstrating depth of understanding of all operations involving multi-digit numbers with decimals through use of concrete models/drawings, understanding of place value, properties, and relationships (CC.2.1.5.C.1) Demonstrating depth of understanding of all fraction operations and real-world applications of those operations based on the relationships between the operations (CC.2.1.5.C.2)

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<p>Measurement</p> <ul style="list-style-type: none"> Selecting and using appropriate instruments and units for measuring quantities to a specified level of accuracy Estimating areas and volumes of shapes and solids as the sums of areas of tiles and volumes of cubes 	<p>Measurement</p> <ul style="list-style-type: none"> Converting within a given measurement system (customary and metric) and solving multi-step real world problems (CC.2.4.5.A.1)
<p>Geometry</p> <ul style="list-style-type: none"> Three-dimensional shapes Predicting and describing the result of a translation (slide), rotation (turn), or reflection (flip) of a 2- dimensional shape 	<p>Geometry</p> <ul style="list-style-type: none"> Developing depth of understanding of the classification of two-dimensional figures based on their properties (CC.2.3.5.A.2)
<p>Data Analysis and Probability</p> <ul style="list-style-type: none"> Gathering and displaying data based on surveys and observations Calculating, describing, and analyzing measures of central tendency Developing conceptual understandings of probabilities and predictions, combinations and outcomes Determining a functional rule from a table or graph Using concrete objects and combinations of symbols and numbers to create expressions, equations, and inequalities that model mathematical situations 	<p>Data Analysis and Probability</p> <ul style="list-style-type: none"> Graphing to display data resulting from measurement (e.g. creation a line plot) (CC.2.4.5.A.2) Analyzing and solving problems based on data presented in graphs (line plots) using grade-appropriate fraction operations (CC.2.4.5.A.4)

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