ARKANSAS MATH FRAMEWORK STANDARDS CORRELATED TO
MOVING WITH MATH EXTENSIONS GRADE 6

		Student Book	Skill Builders
	NUMBER SENSE		
	Rational Numbers		
No.1.6.1	Demonstrate conceptual understanding to find a specific percent of a number, using models, real-life examples or explanations		29-1, 30-1
No.1.6.2	Connect various physical models and representations to the quantities they represent using number names, numerals and number words up to 10 with and without appropriate technology	35-40	25-1, 29-1
No.1.6.3	Round and compare decimals to a given place value including 1000ths	38-39	24-1
No.1.6.4	Convert, compare and order fractions (mixed numbers and improper fractions) decimals and percents and find their approximate location on a number line	23-25, 35, 40	11-2
No.1.6.5	Recognize and identify perfect squares and their square roots		
	Number Theory		
No.2.6.1	Use divisibility rules to determine if a number is a factor of another number		
No.2.6.2	Apply the distributive property of multiplication over addition to simplify computations with whole numbers		
No.2.6.3	Apply the addition, subtraction, multiplication and division properties of equality to one step equations with whole numbers		5-1, 5-2
No.2.6.4	Apply rules (conventions) for order of operations to whole numbers with and without parentheses	4, 18	5-1, 5-2
	Understand Operations		
No.2.6.5	Model multiplication and division of fractions (including mixed numbers) and decimals using pictures and physical objects	32-34	19-1, 19-2
	Computational Fluency		

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No.3.6.1	Apply with and without appropriate technology algorithms with computational fluency to perform whole number operations	5-6, 9-13, 18	7-1, 9-1, 10-1, 10-3
No.3.6.2	Develop and analyze algorithms for computing with fractions (including mixed numbers) and decimals and demonstrate with and without technology, computational fluency in their use and justify the solution	27-31, 33-34, 39-42, 44-49	15-1, 16-1, 16-2, 17-1, 17-2, 18-1, 19-2, 20-1
No.3.6.3	Solve with and without appropriate technology multi-step problems using a variety of methods and tools (objects, mental computation, paper and pencil)	18, 28-32	8-1, 9-1, 10-1, 10-3, 17-2, 18-1
	Estimation		
No.3.6.4	Estimate reasonable solutions to problem situations involving fractions and decimals	21	
	Application of Computation		
No.3.6.5	Find and use factorization (tree diagram) including prime factorization of composite numbers (expanded and exponential notation) to determine the greatest common factor (GCF) and least common multiple (LCM)		
No.3.6.6	Use proportional reasoning and ratios to represent problem situations and determine the reasonableness of solutions with and without appropriate technology		
No.3.6.7	Determine the percent of a number and solve related problems in real world situations (sales tax, discounts)		29-1, 30-1
	ALGEBRA		
	Patterns, Relations and Functions		
A.4.6.1	Solve problems by finding the next term or missing term in a pattern or function table using real world situations	2, 23	44-1
A.4.6.2	Interpret and write an algebraic rule for a one-operation function table		45-5
	Expressions, Equations and Inequalities		
A.5.6.1	Model, write and solve one step equations by informal methods using manipulatives and appropriate technology	4, 6, 9, 11-13, 23, 27-28, 32, 34-39, 41-45, 47	5-1, 15-1, 16-2, 17-1, 24-1
A.5.6.2	Write simple algebraic expressions using appropriate operations $(+,-,\times,\div)$		45-5

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A.5.6.3	Evaluate algebraic expressions with one variable using appropriate properties and operations (+,−,×,÷)		45-5
	Algebraic Models and Relationships		
A.6.6.1	Complete with and without appropriate technology and interpret tables and line graphs that represent the relationship between two variables in quadrant 1 (time and distance)	61	
	Analyze Change		
A.7.6.1	Identify and compare situations with constant or varying rates of change	63	48-1
	GEOMETRY		
	Characteristics of Geometric Shapes		
G.8.6.1	Identify 3-D geometric figures using models (rectangular prisms, cylinders, cones, pyramids and spheres)		39-2
G.8.6.2	Investigate with manipulatives or grid paper what happens to the perimeter and area of a 2-D shape when the dimensions are changed (length of sides are doubled)	56	38-1, 38-2
G.8.6.3	Identify, describe, draw and classify triangles as equilateral, isosceles, scalene, right, acute, obtuse and equiangular	51	
G.8.6.4	Draw, label and determine relationships among the radius, diameter, center and circumference of a circle	54	35-1
G.8.6.5	Identify similar figures and explore their properties		
	Symmetry and Transformations		
G.9.6.1	Identify and describe line and rotational symmetry in 3-D shapes, patterns and designs		
G.9.6.2	Describe positions and orientations of shapes under transformation (translation, reflection, and rotation) recognizing the size and shape do not change		
	Coordinate Geometry		
G.10.6.1	Use ordered pairs to plot points in Quadrant 1	61	
G.10.6.2	Plot points that form the vertices of a geometric figure and draw, identify and classify the figure	61	
	Spatial Visualization and Models		

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G.11.6.1	Identify 2-D patterns (nets) for 3-D solids, such as prisms, pyramids, cylinders and cones		39-2
	MEASUREMENT		
	Attributes and Tools		
M.12.6.1	Identify and select appropriate units and tools from both systems to measure (angles with degrees, distance and feet/meters)	60	41-1
M.12.6.2	Make conversions within the same measurement system in real world problems (hours to minutes to seconds, feet to inches, liters to milliliters, quarts to gallons, etc.)	60	40-1, 41-1, 42-1
M.12.6.3	Compare and contrast the differences among linear units, square units and cubic units	57-58	36-1, 36-2, 38-1, 38-2, 39-1
M.13.6.1	Solve real world problems involving one elapsed time counting forward and backward (calendar and clock)	59	40-1
M.13.6.2	Determine which unit of measure or measurement tool matches the context for a problem situation	60	41-1
M.13.6.3	Draw and measure distance to the nearest mm and 1/8 inch accurately	55	36-1, 36-2, 38-1
M.13.6.4	Establish and apply formulas to find area and perimeter of triangles, rectangles and parallelograms	56-57	38-1, 38-2
M.13.6.5	Find the distance between two points on a number line		
M.13.6.6	Use estimation to check the reasonableness of measurements obtained from use of various instruments (including angle measures)	60	
	DATA ANALYSIS AND PROBABILITY		
	Collect, Organize and Display Data		
DAP.14.6.1	Formulate questions, design studies and collect data about a characteristic shared by 2 populations or different characteristics within one population	19	
DAP.14.6.2	Collect data and select appropriate graphical representations to display the data including Venn diagrams	19	47-2
DAP.14.6.3	Construct and interpret graphs, using correct scale, including line graphs and double bar graphs		48-1
	Data Analysis		
DAP.15.6.1	Interpret graphs such as double line graphs and circle graphs	62-63	

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DAP.15.6.2	Compare and interpret information provided by measures of central tendencies (mean, median and mode) and measures of spread (range)	18-19, 63	46-1, 46-2
DAP.16.6.1	Use observations about differences in data to make justifiable inferences	62-63	
DAP.17.6.1	Distinguish between theoretical and experimental probability		47-2