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VIRGINIA MATHEMATICS STANDARDS OF LEARNING CORRELATED TO MOVING WITH MATH-BY-TOPIC LEVEL C - GRADE 6

		Lesson Plan/ Student Book	Skill Builders
NUMBER AND NUMBER SENSE			
6.1	The student will represent relationships between quantities using ratios, and will use appropriate notations, such as a/b , a to b , and $a:b$.	CII: 27	
6.2	The student will		
a.	represent and determine equivalencies among fractions, mixed numbers, decimals, and percents; and	CII: 13-15, 17, 64-67, 76, 95, 97, 98	14-1, 14-2, 21-1, 21-2, 21-3, 22-1, 25-1, 25-2, 25-3, 30-1, 30-2, 30-3
b.	compare and order positive rational numbers.	CII: 16, 28, 29, 72-74	13-1, 13-2, 24-1, 24-2
6.3	The student will		
a.	identify and represent integers;	CI: 77, 78	
b.	compare and order integers; and	CI: 78	
c.	identify and describe absolute value of integers.		
6.4	The student will recognize and represent patterns with whole number exponents and perfect squares.	CI: 21, 22	
COMPUTATION AND ESTIMATION			
6.5	The student will		
a.	multiply and divide fractions and mixed numbers;	CII: 48-58	19-2, 20-2
b.	solve single-step and multistep practical problems involving addition, subtraction, multiplication, and division of fractions and mixed numbers; and	CII: 30, 31, 33-37, 39, 42-55, 57, 58	15-1, 15-3, 15-4, 15-5, 16-1, 16-2, 16-4, 17-3, 18-1, 18-2, 19-2, 19-3, 20-3, 45-9, 45-10
c.	solve multistep practical problems involving addition, subtraction, multiplication, and division of decimals.	CII: 78, 80, 82, 86, 88, 90-92, 94	26-1, 26-2, 27-1, 28-1, 28-2, 45-11, 45-12
6.6	The student will		
a.	add, subtract, multiply, and divide integers;	CI: 77	
b.	solve practical problems involving operations with integers; and	CI: 77	
c.	simplify numerical expressions involving integers.		
MEASUREMENT AND GEOMETRY			
6.7	The student will		
a.	derive π (pi);	CIII: 23	
b.	solve problems, including practical problems, involving circumference and area of a circle; and	CIII: 23	
c.	solve problems, including practical problems, involving area and perimeter of triangles and rectangles.	CIII: 40, 44, 45	38-6, 39-4
6.8	The student will		

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a.	identify the components of the coordinate plane; and	CI: 73	
b.	identify the coordinates of a point and graph ordered pairs in a coordinate plane.	CI: 73	
6.9	The student will determine congruence of segments, angles, and polygons.	CIII: 3	
PROBABILITY AND STATISTICS			
6.10	The student, given a practical situation, will		
a.	represent data in a circle graph;	CIII: 70	
b.	make observations and inferences about data represented in a circle graph; and	CIII: 68, 69	48-2
c.	compare circle graphs with the same data represented in bar graphs, pictographs, and line plots.		
6.11	The student will		
a.	represent the mean of a data set graphically as the balance point; and		
b.	determine the effect on measures of center when a single value of a data set is added, removed, or changed.		
PATTERNS, FUNCTIONS, AND ALGEBRA			
6.12	The student will		
a.	represent a proportional relationship between two quantities, including those arising from practical situations;	CII: 26	
b.	determine the unit rate of a proportional relationship and use it to find a missing value in a ratio table;		
c.	determine whether a proportional relationship exists between two quantities; and		
d.	make connections between and among representations of a proportional relationship between two quantities using verbal descriptions, ratio tables, and graphs.		
6.13	The student will solve one-step linear equations in one variable, including practical problems that require the solution of a one-step linear equation in one variable.	CI: 68	
6.14	The student will		
a.	represent a practical situation with a linear inequality in one variable; and		
b.	solve one-step linear inequalities in one variable, involving addition or subtraction, and graph the solution on a number line.		