VIRGINIA MATHEMATICS STANDARDS OF LEARNING CORRELATED TO
MOVING WITH MATH® INTERMEDIATE/MIDDLE (IM) GRADE 6

		IM1 *Number, Reasoning & Data* Lesson Plan/ Student Book Skill Builders (SB)	IM2 *Fractions, Decimals & Percent* Lesson Plan/ Student Book Skill Builders (SB)	IM3 *Geometry, Measurement, Graphing* Lesson Plan/ Student Book Skill builders (SB)
	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.*		9	56, 60 **SB:** 12-1, 52-1, 52-4, 52-5
6.2	The student will			
a.	represent and determine equivalencies among fractions, mixed numbers, decimals, and percents; and		13, 47, 67-69 **SB:** 14-1, 14-2, 25-1, 25-2, 29-2, 30-1, 30-2, 30-3, 30-5	
b.	compare and order positive rational numbers.		10, 11, 49-51 **SB:** 13-1, 13-2, 13-5, 24-1, 24-2, 24-3	
6.3	The student will			
a.	identify and represent integers;	63-65 **SB:** 59-1, 59-2		
b.	compare and order integers; and	66 **SB:** 59-3		
c.	identify and describe absolute value of integers.	**SB:** 59-8		
6.4	The student will recognize and represent patterns with whole number exponents and perfect squares.	16, 17 **SB:** 4-4		
	COMPUTATION AND ESTIMATION			
6.5	The student will			
a.	multiply and divide fractions and mixed numbers;		28-31, 33, 34, 36 **SB:** 19-1 to 19-5, 20-1 to 20-5	

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b.	solve single-step and multistep practical problems involving addition, subtraction, multiplication, and division of fractions and mixed numbers; and		14-17, 19-23, 25-32, 34-36 **SB:** 15-1 to 15-3, 16-1, 16-2, 16-4, 17-1 to 17-4, 18-1, 18-2, 18-4, 19-1 to 19-5, 20-1, 20-3, 45-1, 45-3, 45-4, 45-10, 45-11	
c.	solve multistep practical problems involving addition, subtraction, multiplication, and division of decimals.		55, 56, 65, 66 **SB:** 45-5, 45-6, 45-7, 45-8, 45-9, 45-12, 45-13	
6.6	The student will			
a.	add, subtract, multiply, and divide integers;	68, 69 **SB:** 59-5, 59-6, 59-7		
b.	solve practical problems involving operations with integers; and	68, 69 **SB:** 59-5		
c.	simplify numerical expressions involving integers.			
	MEASUREMENT AND GEOMETRY			
6.7	The student will			
a.	derive π (pi);			14
b.	solve problems, including practical problems, involving circumference and area of a circle; and			14 **SB:** 35-2, 38-12
c.	solve problems, including practical problems, involving area and perimeter of triangles and rectangles.			41, 42, 45, 46, 47, 50 **SB:** 38-1 to 38-4, 38-6 to 38-9, 38-11, 38-13
6.8	The student will			
a.	identify the components of the coordinate plane; and	77 **SB:** 43-1, 44-4		15, 16 **SB:** 43-1
b.	identify the coordinates of a point and graph ordered pairs in a coordinate plane.	77 **SB:** 43-1, 44-4		15, 16 **SB:** 43-1
6.9	The student will determine congruence of segments, angles, and polygons.			18, 19 **SB:** 60-2, 60-6
	PROBABILITY AND STATISTICS			
6.10	The student, given a practical situation, will			
a.	represent data in a circle graph;			

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b.	make observations and inferences about data represented in a circle graph; and		37, 38 **SB:** 45-14, 48-1, 48-2, 48-3	**SB:** 48-1
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;		9 **SB:** 12-8, 12-9	57, 58, 60 **SB:** 12-1, 52-1
b.	determine the unit rate of a proportional relationship and use it to find a missing value in a ratio table;			59 **SB:** 52-3
c.	determine whether a proportional relationship exists between two quantities; and			**SB:** 52-2
d.	make connections between and among representations of a proportional relationship between two quantities using verbal descriptions, ratio tables, and graphs.			60
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.	71, 72 **SB:** 56-2, 56-3, 56-4		
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.			