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## VIRGINIA MATHEMATICS STANDARDS OF LEARNING CORRELATED TO MOVING WITH MATH® MIDDLE/HIGH (MH) GRADE 7

		MH1 Number Sense, Reasoning & Data Lesson Plan/ Student Book Skill Builders (SB)	MH2 Fractions & Decimals Lesson Plan/ Student Book Skill Builders (SB)	MH3 Percent & Probability Lesson Plan/ Student Book Skill Builders (SB)	MH4 Geometry & Measurement Lesson Plan/ Student Book Skill Builders (SB)	MH5 Algebra Lesson Plan/ Student Book Skill Builders (SB)
	NUMBER AND NUMBER SENSE					
7.1	The student will					
a.	investigate and describe the concept of negative exponents for powers of ten;	30 <b>SB:</b> 57-2				
b.	compare and order numbers greater than zero written in scientific notation;					
C.	compare and order rational numbers;		9, 11, 44, 47, 55 <b>SB:</b> 11-2, 18-4, 65-			5 <b>SB:</b> 48-2
d.	determine square roots of perfect squares; and	23			33 <b>SB:</b> 54-1	
е.	identify and describe absolute value of rational numbers.					9, 10 <b>SB</b> : 48-4, 50-6
	COMPUTATION AND ESTIMATION					

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7.2	The student will solve practical problems involving operations with rational numbers.		13-20, 22-29, 31-36, 56-59, 62-74 <b>SB:</b> 12-3 to 12-6, 13-3, 13-4, 14-2, 15-1, 17-1, 17-2, 21-1, 21-2, 22-1, 22-2, 23-1, 43-1	2, 3, 5, 34-44, 46-54 <b>SB:</b> 12-1, 13-1, 13- 2, 14-1, 14-2, 15-1, 17-1, 21-1, 24-1, 28- 1 to 28-8, 43-1 to 43- 3, 46-1		14, 15, 17, 21, 25, 28 <b>SB:</b> 58-9
7.3	The student will solve single-step and multistep practical problems, using proportional reasoning.		37, 38 <b>SB:</b> 46-1, 46-2	22-27, 49 <b>SB:</b> 26-2, 46-1	27-32, 58, 59 <b>SB:</b> 26-3, 46-2, 46-3	
	MEASUREMENT AND GEOMETRY					
7.4	The student will					
a.	describe and determine the volume and surface area of rectangular prisms and cylinders; and				51, 52, 71-73, 75, 76 <b>SB:</b> 41-1, 41-2, 62-2	
b.	solve problems, including practical problems, involving the volume and surface area of rectangular prisms and cylinders.				51, 52, 71-73, 75, 76 <b>SB:</b> 41-1, 41-2, 62-2	
7.5	The student will solve problems, including practical problems, involving the relationship between corresponding sides and corresponding angles of similar quadrilaterals and triangles.				25, 29, 30 <b>SB:</b> 46-2, 53-1, 53-2	
7.6 a.	The student will compare and contrast quadrilaterals based on their properties; and				10, 11 <b>SB:</b> 31-2, 31-3	

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b.	determine unknown side lengths or angle measures of quadrilaterals.				22 <b>SB</b> : 52-3	
7.7	The student will apply translations and reflections of right triangles or rectangles in the coordinate plane.				14, 16 <b>SB:</b> 49-1, 53-3	
	PROBABILITY AND STATISTICS					
7.8	The student will					
a.	determine the theoretical and experimental probabilities of an event; and			61-68, 74 <b>SB:</b> 47-1, 47-2, 47- 4, 47-6		
b.	investigate and describe the difference between the experimental probability and theoretical probability of an event.			61, 63, 74 <b>SB:</b> 47-6		
7.9	The student, given data in a practical situation, will					
a.	represent data in a histogram;	68				
b.	make observations and inferences about data represented in a histogram; and	68				
C.	compare histograms with the same data represented in stemand-leaf plots, line plots, and circle graphs.					
	PATTERNS, FUNCTIONS, AND ALGEBRA					

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7.10	The student will					
a.	determine the slope, $m$ , as rate of change in a proportional relationship between two quantities and write an equation in the form $y = mx$ to represent the relationship;					77
b.	graph a line representing a proportional relationship between two quantities given the slope and an ordered pair, or given the equation in $y = mx$ form, where $m$ represents the slope as rate of change;					<b>SB:</b> 60-5
C.	determine the <i>y</i> -intercept, <i>b</i> , in an additive relationship between two quantities and write an equation in the form $y = x + b$ to represent the relationship;					
d.	graph a line representing the additive relationship between two quantities given the $y$ -intercept and an ordered pair, or given the equation in the form $y = x + b$ where $b$ represents the $y$ -intercept; and					
e.	make connections between and among representations of a proportional or additive relationship between two quantities using verbal descriptions, tables, equations, and graphs.					60-64, 68 <b>SB:</b> 60-1

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7.11	The student will evaluate algebraic expressions for given replacement values of the variables.					58, 59 <b>SB:</b> 59-2
7.12	The student will solve two-step linear equations in one variable, including practical problems that require the solution of a two-step linear equation in one variable.					46-48, 57 <b>SB:</b> 50-4
7.13	The student will solve one- and two-step inequalities in one variable, including practical problems, involving addition, subtraction, multiplication, and division, and graph the solution on a number line.					53-55 <b>SB:</b> 50-5