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	West Virginia Mathematics	Content Stand	lards Correlate	d to
	Moving with Math Inte	rmediate/Middl	le (IM) Grade 6	
		IM1 <i>Number,</i> <i>Reasoning & Data</i> Student Book Skill Builders (SB)	IM2. <i>Fractions,</i> <i>Decimals &</i> <i>Percent</i> Student Book Skill Builders (SB)	IM3 <i>Geometry,</i> <i>Measurement &</i> <i>Graphing</i> Student Book Skill Builders (SB)
	STANDARD 1. NUMBER AND OPERATIONS			
M.O.6.1.1	demonstrate an understanding of large numbers by converting and comparing numbers in scientific notation and standard notation (with and without technology)			
M.O.6.1.2	determine the greatest common factor and least common multiple using multiple strategies to solve real-world problems; find prime factorization of a number	13 SB: 4-6	Throughout	SB: 12-1, 52-1
M.O.6.1.3	compare and order integers using multiple strategies (e.g., symbols, manipulatives, number line)	7, 8, 17, 64-69 SB: 2-3, 2-4, 4-4, 59-3, 59-5	SB: 59-1	SB: 59-1
M.O.6.1.4	analyze and solve real-world problems involving addition, subtraction, multiplication and division of:			

		IM1 <i>Number,</i> <i>Reasoning & Data</i> Student Book Skill Builders (SB)	IM2. <i>Fractions,</i> <i>Decimals &</i> <i>Percent</i> Student Book Skill Builders (SB)	IM3 Geometry, Measurement & Graphing Student Book Skill Builders (SB)
• wł	nole numbers	Throughout	21, 22, 28-38, 54-57, 59-66, 70-72, 77 SB: 5-1 5-2, 6-1, 7-1, 8-1, 9-1, 10- 1, 10-2, 16-1, 16- 4, 17-4, 19-2 to 19-5, 20-2 to 20- 5, 26-4, 27-2 to 27-6, 28-1 to 28- 7, 44-1 45-1 to 45-4, 45-6 to 45- 9, 45-11 to 45- 15, 46-1, 48-1 to 48-3, 49-1, 50-1, 53-1 to 53- 4, 56-1, 58-3	Throughout
• fra	actions, mixed numbers		Throughout	28, 31, 34-36, 47 SB: 15-1, 16-1, 17-1, 18-1, 19- 1, 20-1, 36-4, 38- 3, 38-6, 38-7, 39- 3, 41-1, 41-2, 42- 1, 42-2, 45-3
• de	ecimals		Throughout	33, 35, 37, 59 SB: 26-1, 27-1, 28-1, 36-6, 38- 3, 38-6, 38-11, 39-2, 39-3, 41- 2, 42-1, 42-2, 45- 3, 52-3

		IM1	IM2.	IM3
		Number,	Fractions,	Geometry,
		Reasoning & Data	Decimals &	Measurement &
		Student Book	Percent	Graphing
		Skill Builders (SB)	Student Book	Student Book
			Skill Builders (SB)	Skill Builders (SB)
•	integers	Throughout	21, 22, 28-38, 54-57, 59-66, 70-72, 77 SB: 5-1, 5-2, 6-1, 7-1, 8-1, 9-1, 10- 1, 10-2, 16-1, 16- 4, 17-4, 19-2 to 19-5, 20-2 to 20- 5, 26-4, 27-2 to 27-6, 28-1 to 28- 7, 44-1, 45-1 to 45-4, 45-6 to 45- 9, 45-11 to 45-	Throughout
			9, 43-11 to 43- 15, 46-1, 48-1 to 48-23, 49-1, 50-1, 53-1 to 53- 4, 56-1, 58-3	
•	justify the reasonableness by estimation	27-30, 46, 48, 51-54 SB: 45-7, 45-8, 45-13, 49-1, 49- 2, 50-1 to 50-3	12, 24-27, 36, 56, 65, 66 SB: 18-3, 18-4, 19-4, 45-3, 45- 5, 45-6, 45-8 to 45-10, 49-1, 50- 1, 51-1	6, 14, 33-35 SB: 35-2, 36-3, 37-3, 41-1, 41- 2, 42-2, 47-5, 48- 3, 49-1, 50-1, 55- 1
M.O.6.1.5	apply the distributive, commutative, associative and identity properties to numeric expressions and use to prove equivalency	19-22, 55 SB: 5-1 to 5-8, 45-2, 45-12, 45- 16	36, 65, 66 SB: 5-1, 5-2, 45- 4, 45-6, 45-9	50, 54 SB: 38-7, 39-3, 39-4, 44-2
M.O.6.1.6	convert between fractions/ratios, mixed numbers, decimals, and percents in appropriate real-world problems		Throughout	SB: 12-1, 21-1, 22-1, 25-1, 29- 1, 30-1 52-1, 52- 2
M.O.6.1.7	compute the percent of a number to solve application problems and justify the reasonableness by estimation		67-72 SB: 29-1 to 29-3, 30-1 to 30-4, 53- 1 to 53-4	SB: 29-1, 30-1, 53-1
M.O.6.1.8	demonstrate an understanding of the effect of multiplying and dividing, whole numbers, fractions and decimals by numbers including 0, 1 and values between 0 and 1	21, 31, 39, 49, 73-76, 78 SB: 5-2, 5-7, 44- 2 to 44-6, 45-9, 45-10, 45-15	Throughout	Throughout

		IM1	IM2.	IM3
		Number,	Fractions,	Geometry,
		Reasoning & Data	Decimals &	Measurement &
		Student Book	Percent	Graphing
		Skill Builders (SB)	Student Book	Student Book
			Skill Builders (SB)	Skill Builders (SB)
М.О.6.1.9	develop and test hypotheses to derive the rules for addition, subtraction, multiplication and division of integers, justify by using	Throughout	21, 22, 28, 38, 54-57, 59-66, 70-72, 77	Throughout
	real-world examples and use them to solve problems		7-1, 8-1, 9-1, 10- 1, 10-2, 16-1, 16 4, 17-4, 19-2 to 19-5, 20-2 to 20-	
			5, 26-4, 27-2 to 27-6, 28-1 to 28- 7, 44-1, 45-1 to 45-4, 45-6 to 45-	
			9, 45-11 to 45- 15, 46-1, 48-1 to 48-3, 49-1, 50-1, 53-1 to 53- 4, 56-1, 58-3	
	STANDARD 2. ALGEBRA			
M.O.6.2.1	simplify numerical expressions and	22, 55	36, 65, 66	50, 54
	evaluate algebraic expressions using order of operations	SB: 5-4, 5-6, 5-8, 45-2, 45-12, 45- 16	SB: 5-2, 45-4, 45- 6	SB: 38-7, 39-3, 39-4, 44-2
M.O.6.2.2	use inductive reasoning to extend pattern to predict the nth term (e.g., powers and triangular numbers)			SB: 44-6
M.O.6.2.3	create algebraic expressions that correspond to real-world situations; use the expressions to solve problems	76		
M.O.6.2.4	determine the rule, output or input; given an input/output model using one operation, write an algebraic expression for the rule and use to identify other input/output values	76-78 SB: 44-4, 44-5		31, 34, 74 SB: 44-5, 44-6
M.O.6.2.5	solve real-world proportion problems involving rates, probability and measurements using multiple strategies, justify selection of strategies		71-75, 78 SB: 53-2 to 53-4, 57-1 to 57-5, 58- 4	57-61 SB: 12-1, 44-5, 52-2 to 52-5, 57- 1

		IM1	IM2.	IM3
		Number,	Fractions,	Geometry,
		Reasoning & Data	Decimals &	Measurement &
		Student Book	Percent	Graphing
		Skill Builders (SB)	Student Book	Student Book
			Skill Builders (SB)	Skill Builders (SB)
M.O.6.2.6	write and solve one-step equations using number sense, properties of operations and the idea of maintaining equality to represent and solve real-world problems	Throughout	Throughout	Throughout
	STANDARD 3. GEOMETRY			
M.O.6.3.1	analyze characteristics using			
	defining properties of:			
•	lines			2-4, 19
				SB: 31-1, 32-1 to 32-5
•	angles			5, 6, 8, 19, 23-
				27, 63
				SB: 31-2, 33-1,
				34-3, 37-1 to 37-
				3, 52-6, 54-1, 55
				1 to 55-3, 60-3
•	polygons			Throughout
•	triangles			8, 25, 26, 63, 64 SB: 34-3, 55-3
•	compare these geometric figures			7-12
				SB: 34-1 to 34-7,
				34-10
M.O.6.3.2	use inductive reasoning with the			25-27, 63
	measures of interior angles in			SB: 34-3, 52-6,
	polygons and derive the formula to			55-1 to 55-3, 60-
	determine the sum of eh measures			6
10022	of the interior angles			4
M.U.6.3.3	apply the concepts of parallel,			4 CD. 22 F
	skew lines to real-world situations			3D: 32-3
	(Le roads and routes)			
M0634	create designs using line and			17
M.O.O.J.4	rotational symmetry			SB: 60-1
M.O.6.3.5	predict, describe, and perform			17, 20
	transformations on two-dimensional			SB: 60-1, 60-4,
	shapes:			60-5
•	translations			20
				SB: 60-4

		IM1	IM2.	IM3
		Number.	Fractions.	Geometry.
		Reasoning & Data	Decimals &	Measurement &
		Student Book	Decimais &	Graphing
				Graphing
		Skill Builders (SB)	Student Book	Student Book
			Skill Builders (SB)	Skill Builders (SB)
•	rotations			20
				SB: 60-4
•	reflections			20
				SB • 60-4
				30. 00-4
M.O.6.3.6	use geometric representations to			Ihroughout
	solve real-world problems			
M.O.6.3.7	plot polygons on coordinate grids.			15
	determine lengths and areas from			SB • 38-5
	the graph			00.000
	STANDARD 4. MEASUREMENT			
M.O.6.4.1	determine an approximation for pi			
	using actual measurements			
M0642	develop and test hypotheses to			
M.O.O.4.2	determine formulae for			
	determine formulas for.			
•	perimeter of polygons including			41, 42
	composite figures			SB: 38-2, 38-3,
				38-8, 38-11
•	area of parallelograms			44-51
				SB • 38-5 38-6
				$38_8 \pm 0.38_{-11}$
•	area of triangles			47, 48, 51
				SB: 38-7, 38-10
•	area of composite figures made of			44, 45, 48, 49,
	parallelograms and triangles			51
				SB: 38-5 38-7
				38-10
	airaumfaranaa of a airala			14
				ср. 2 Г. 2
				30: 33-2
•	area of a circle			5B: 38-12
•	volume of a rectangular prism			52, 53
				SB: 39-1 to 39-3,
				39-5
M.O.6.4.3	investigate, model and describe			54
	surface area of rectangular prisms			SB. 39-4
	and ovlindore: dovelon strategies to			JJ 7
	and cylinders, develop strategies to			
	determine the surface area of			
	rectangular prisms			
M.O.6.4.4	develop strategies to determine			
	volume of cylinders: solve real-world			
	problems involving column of			
	cylinders justify the results			
	cymuers, justify the results			

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M.O.6.4.5	given a two-dimensional polygon, construct a scale drawing given the scale factor			
	STANDARD 5. DATA ANALYSIS AND PROBABILITY			
M.O.6.5.1	collect, organize, display, read, interpret and analyze real-world data using appropriate graphs and tables (with and without technology)	7, 8, 10, 11, 28, 58, 62, 76-78 SB: 3-1 to 3-3, 43-1, 44-4, 44- 5, 45-13, 46-3, 46-5, 49-1, 59-7	7, 37, 38, 48, 55, 58, 63, 72 SB: 6-1, 11-1, 27- 4, 28-3, 28-7, 43- 1, 45-7, 45-14, 48-1 to 48-3, 49- 1, 50-1, 53-3, 57- 2	10, 22, 31, 34, 66, 68-76 SB: 44-5, 44-6, 46-1, 47-1 to 47- 3, 47-5, 47-6, 48- 1 to 48-5
M.O.6.5.2	identify a real-life situation using statistical measures (mean, median, mode, range, outliers) over time, to make a hypotheses as to the outcome; design and implement a method to collect, organize and analyze data; analyze the results to make a conclusion; evaluate the validity of the hypotheses based upon collected data, design a mode of presentation using words, graphs, models, and/or tables (with and without technology)	59-62 SB: 46-1 to 46-5	SB: 46-1	65, 66, 72, 73, 75 SB: 46-1, 47-5, 47-6, 48-1 to 48- 3, 48-5
M.O.6.5.3	perform simple probability events using manipulatives; predict the outcome given events using experimental and theoretical probability; express experimental and theoretical probability as a ratio, decimal or percent		73-75, 78 SB: 57-1 to 57-5, 58-4	SB: 57-1, 58-1
M.O.6.5.4	determine combinations and permutations of given real-world situations by multiple strategies, including creating lists		76, 77 SB: 58-1 to 58-3	SB: 58-1