

National MSMS Course 1 2019-2020 MATHia Enhancements Release Notes

Module		Topic	Unit		Workspace	Description	Enhancement
1	Composing and Decomposing	Factors and Area	2	Area	Calculating Area of Rectangles	Students calculate the areas of rectangles and squares in mathematical and real-world situations.	NEW/SPLIT: This workspace is new, created by splitting out the rectangle/square problems from Calculating Area of Various Figures .
					Calculating Area of Various Figures	Students calculate the areas of parallelograms, trapezoids, and triangles in mathematical and real-world situations.	SPLIT WS: This workspace has changed to only address parallelograms, trapezoids, and triangles.
		Decimals and Volume	4	Decimal Operations	Decimal Sums and Differences	Students practice adding and subtracting multi-digit decimals using the standard algorithm.	NEW: This workspace used to be a Concept Builder workspace and has been converted to a Mastery workspace.
					Patterns with Products and	From a given product, students use patterns to compute	Patterns with Products and

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			Quotients	additional related products and quotients.	Quotients	
			Multiplying Decimals	Students investigate multiplying multi-digit decimals by following worked examples, completing partially-completed worked examples, and solving problems.	Multiplying Decimals	
			Decimal Products	Students practice multiplying multi-digit decimals using the standard algorithm.	Decimal Products	
			Dividing Decimals	Students investigate dividing multi-digit whole numbers and decimals by following worked examples, completing partially-completed worked examples, and solving problems.	Dividing Decimals	
			Whole Number and Decimal Quotients	Students practice dividing whole numbers and decimals using the standard algorithm.	Whole Number and Decimal Quotients	
		3	Volume and Surface Area	Determining Volume Using Unit Fraction Cubes	Students watch an animation, which provides an example of how to determine the unit fraction dimensions of a cube to fill a rectangular prism with fractional edge lengths. Students	NEW: This is a new Concept Builder workspace.

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						determine the volumes of various rectangular prisms with different fractional edge lengths.	
					Determining Surface Area Using Nets	Students watch an animation showing how real-world objects can be represented by three-dimensional solid figures and how solid figures can be taken apart to create two-dimensional nets. Students use nets to determine the surface areas of right rectangular prisms and square pyramids, and they identify faces, edges, and vertices of solid figures.	NEW: This is a new Concept Builder workspace.
3	Determining Unknown Quantities	Expressions	1 2	Numeric Expressions	Writing and Evaluating Exponent Expressions	Students watch an animation showing how an expression with an exponent can be rewritten as a product, identify the base and exponent and describe their meaning in exponent expressions, and rewrite exponent expressions as single values and rewrite products as exponent expressions.	NEW: This is a new Concept Builder workspace.
			2	Algebraic Expressions	Identifying	Students identify the parts of	NEW: This is a new

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				Parts of Simple Algebraic Expressions	simple algebraic expressions, including terms, coefficients, sums, factors, products, differences, and quotients.	Concept Builder workspace.	
		6	Solving One-Step Inequalities	Using Substitution to Identify Solutions to Inequalities	Students determine which given values for a variable are solutions to an inequality.	NEW: This is a new Concept Builder workspace.	
	Graphing Quantitative Relationships	7	Problem Solving with One-Step Equations	Modeling Scenarios with Equations	Students interpret the model of a one-step linear equation in the context of a scenario. They identify independent and dependent quantities and units from scenarios, tables, and graphs.	NEW: This is a new Concept Builder workspace.	
				Analyzing Models of One-Step Linear Relationships	Students analyze scenarios of one-step linear relationships. They are given an equation that models the scenario. Students then match the different expressions in the equation to verbal descriptions of these quantities in the context of the scenario.	NEW: This is a new Mastery workspace.	
4	Moving	The Four	3	Multiple Representations	Writing an	Students match a scenario to an	NEW: This is a new

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	Beyond Positive Quantities	Quadrants			Expression from a Scenario, Table, or Graph	expression that represents the dependent quantity. They complete a table of values given a scenario. Given a table of values, students identify the relationship between the quantities and write an expression to model the independent quantity. Students analyze the relationships in a graph. They use the relationship between the quantities in a graph to write an expression to model the independent quantity.	Concept Builder workspace.
5	Describing Variability of Quantities	The Statistical Process	1	Displays of Numerical Data	Analyzing Distributions with Shape, Center, and Spread	Students watch an animation which describes what a statistical question is and how to analyze data sets according to their center, spread, and overall shape. Students learn about gaps, clusters, peaks, and skew and use these terms to analyze a data set.	NEW: This is a new Concept Builder workspace. NEW: This unit used to be #2 in the module. Now it is number one.