Topics Suggested as First Consideration

In MathUP Summer Learning

Grade	Strand	Topic	* Prerequisite Topics
1	N	Representing Numbers to 50 *	Counting
	N	Meanings of Addition and Subtraction *	Counting (Lesson 1) Representing Numbers to 50 (Lesson 1)
	N	Adding and Subtracting *	Representing Numbers to 50 Money Meanings of Addition and Subtraction
	A	Patterns	None
	D	Displaying and Interpreting Data *	Collecting and Organizing Data
	SS	Length and Time *	Counting
2	N	Representing Whole Numbers *	Counting
	N	Meanings of Addition and Subtraction *	Counting Representing Whole Numbers
	N	Adding and Subtracting Small Numbers *	Representing Whole Numbers Meanings of Addition and Subtraction
	N	Adding and Subtracting Two-Digit Numbers *	Representing Whole Numbers Meanings of Addition and Subtraction Adding and Subtracting Small Numbers
	A	Patterns	None
	A	Algebra *	Meanings of Addition and Subtraction
3	N	Representing Whole Numbers *	Skip Counting
	N	Adding and Subtracting Greater Numbers*	Adding and Subtracting Numbers Less Than 100
	N	Representing Multiplication and Division	None
	N	Multiplying and Dividing *	Representing Multiplication and Division
	A	Patterns	None
	D	Displaying and Interpreting Data *	Representing Multiplication and Division Multiplying and Dividing Collecting, Organizing, and Describing Data

Topics Suggested as First Consideration

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Grade	Strand	Topic	* Prerequisite Topics
4	N	Representing Whole Numbers	None
	N	Representing Fractions	None
	N	Comparing and Ordering Fractions *	Representing Fractions
	N	Simple Multiplication and Division	None
	N	More Complex Multiplication and Division *	Simple Multiplication and Division Using Place Value to Multiply and Divide
	A	Patterns	None
	SS	Area	None
5	N	Representing Whole Numbers	None
	N	Multiplying Whole Numbers	None
	N	Dividing Whole Numbers *	Multiplying Whole Numbers
	N	Representing, Comparing, and Ordering Fractions	None
	N	Representing Decimal Numbers *	Representing, Comparing, and Ordering Fractions
	N	Decimal Operations *	Adding and Subtracting Whole Numbers Representing Decimal Numbers Estimating and Comparing Decimal Numbers
6	N	Classifying Whole Numbers	None
	N	Percent	None
	N	Representing Decimal Numbers	None
	N	Adding and Subtracting Fractions *	Representing, Comparing, and Ordering Fractions
	N	Integers	None
	A	Patterns	None
	A	Algebra *	Multiplying and Dividing Decimal Numbers

Topics Suggested as First Consideration

In MathUP Summer Learning

Grade	Strand	Topic	* Prerequisite Topics
7	N	Adding and Subtracting Integers	None
	N	Rates and Ratios	None
	N	Percent *	Rates and Ratios
	A	Algebra	None
	A	Representing Linear Relationships *	Rates and Ratios Algebra
	SS	Circle Measurement *	Powers and Roots
	SS	Volume *	Circle Measurement
8	N	Percent	None
	N	Integer Operations	None
	N	Fraction Operations	None
	A	Using Algebra *	Integer Operations
	A	Solving Equations and Inequalities *	Integer Operations Using Algebra
	D	Displaying Data	None
	SS	The Pythagorean Theorem *	Similarity Solving Equations and Inequalities

Factors that affected which topics were chosen:

- A need for students to understand the topic in the next or subsequent grades

- The importance of the topic in the exiting grade level

- A focus on number, while recognizing that including other strands is a good mix during the summer review, especially if some number work might be involved

- The need for some attention to algebra, especially in higher grades