

Math Catalyst Strand by Grade

Scope and Sequence for Eureka Math² Florida

Math Catalyst provides a mathematical progression of concepts not bounded by the constraints of grade-level standards. The Concepts and objectives within each strand build upon each other to form a ladder of mathematical understanding. The objectives within each Concept can be used to find a student’s last secure rung on that ladder where their knowledge is sturdy enough to stand on. Equipped with student data that can help inform decisions, teachers can move among the objectives in a strand independent of grade level to find the most useful support for meeting individual student’s needs so that they can continue to climb.

	Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
Early Numeracy	Perceptual Subitizing Within 5 Supports addition within 5* Verbal and Object Counting to 5 M1: Topics A, B, C Verbal and Object Counting to 10 M1: Topics B, C Verbal and Object Counting to 20 M6: Topic A Number Symbols to 10 M1: Topics A, B, D, E Number Symbols to 20 M6: Topics A, B	Conceptual Subitizing Within 10 Supports addition within 10*				

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	Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
Place Value	Compose, Decompose, and Represent Teen Numbers <i>M6: Topics A, B</i>	Compose, Decompose, and Represent Numbers to 120 <i>M3: Topic D</i> <i>M5: Topics A, B</i> Compare and Order Numbers to 120 <i>M1: Topic A</i> <i>M5: Topic B</i>	Compose, Decompose, and Represent Numbers to 1,000 <i>M1: Topics E, F, G and H</i> Compare and Order Numbers to 1,000 <i>M1: Topic I</i> Locate Numbers on a Number Line <i>M1: Topic D</i>	Compose, Decompose, and Represent Numbers to 100,000 <i>Supports place value understanding*</i> Compare and Order Numbers to 100,000 <i>Supports place value understanding*</i> Round to the Nearest Ten and Hundred <i>M2: Topic C</i>	Compose, Decompose, and Represent Multi-Digit Numbers <i>M1: Topic B</i> Compose, Decompose, and Represent Decimals to Hundredths <i>M5: Topics A, B</i>	Compose, Decompose, and Represent Decimals to Thousandths <i>M4: Topic A</i> Compare and Order Decimals to Thousandths <i>M4: Topic A</i> Round Decimals to Tenths or Hundredths <i>M4: Topic A</i>
Addition	Composition and Decomposition Within 10 <i>M4: Topic B</i> <i>M5: Topics A, C</i> Count All to Add Within 10 <i>M4: Topics A, B, C</i> <i>M5: Topics A, C</i>	Compose 10 <i>M1: Topics B, C</i> Count On to Add Within 10 <i>M1: Topics B, C</i> Understand Equality <i>M1: Topic D</i> Add Within 20 <i>M1: Topics B, C, D</i> <i>M2: Topics A, B, C</i> Add Within 100 by Using Mental Strategies <i>M5: Topic C</i>	Add Within 100 with and Without Making New Tens <i>M2: Topics A, B</i> Add Within 1,000 by Using Mental Strategies <i>M2: Topics A, B</i> <i>M4: Topics A, B, D</i> Add Within 1,000 with Regrouping <i>M4: Topics B, E</i>	Solve One-Step and Multi-Step Word Problems Involving Addition <i>M2: Topic E</i> <i>M3: Topic C</i>	Add Whole Numbers Within 1,000,000 <i>M1: Topics B, D</i> Add Fractions with Like Denominators <i>M4: Topics A, D</i> Add Decimals to the Hundredths <i>M6: Topics D, E</i>	Add Fractions with Unlike Denominators <i>M2: Topic B</i> Add Mixed Numbers <i>M2: Topic C</i>

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	Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
Subtraction	Take Away to Subtract Within 10 <i>M5: Topics B, C</i>	Count On to Find the Unknown Addend Within 10 <i>M2: Topic D</i> Subtract Within 20 <i>M2: Topics A, D</i> <i>M3: Topics D, E</i>	Subtract Within 100 by Using Mental Strategies <i>M2: Topics C, D</i> Subtract Within 1,000 by Using Mental Strategies <i>M2: Topic C</i> <i>M4: Topic A, C</i> Subtract Within 1,000 with Regrouping <i>M4: Topics D, E</i>	Solve One-Step and Multi-Step Word Problems Involving Addition and Subtraction <i>M2: Topics D, E</i>	Subtract with Regrouping in Multiple Places to 1,000,000 <i>M1: Topic D</i> Subtract Fractions with Like Denominators <i>M4: Topic D</i> Subtract Decimals to the Hundredths <i>M6: Topics D, E</i>	Subtract Fractions with Unlike Denominators <i>M2: Topic B</i> Subtract Mixed Numbers <i>M2: Topic C</i>
Multiplication			Represent Contextual Multiplication <i>M6: Topics B, C</i>	Representations of Multiplication <i>M1: Topics A, C, E</i> Relate Multiplication to Area <i>M4: Topic A, B, C</i> Applications of Multiplication and Area <i>M4: Topic D</i>	Multiplication as Multiplicative Comparison <i>M1: Topic A</i> Multiplication of Two-Digit Numbers by One-Digit Numbers <i>M2: Topic A</i> Multiplication of Multi-Digit Numbers by One-Digit Numbers <i>M3: Topics A, C</i> Multiplication of Two-Digit Numbers by Two-Digit Numbers <i>M3: Topic D</i>	Multiplication of Multi-Digit Numbers by Multi-Digit Numbers <i>M1: Topic B</i> Representing Multiplication of Decimals by Whole Numbers <i>M4: Topic C</i> Multiplication of Decimals by Decimals <i>M4: Topic C</i> Multiplication of Whole Numbers and Fractions <i>M3: Topic A</i>

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	Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
Division			Represent Contextual Division <i>M6: Topics B, C</i>	Understand Division Concepts <i>M1: Topics B, D, E</i> Relate Multiplication and Division <i>M1: Topics B, D</i> <i>M3: Topics A, B</i>	Divide Multi-Digit Numbers by One-Digit Numbers <i>M2: Topic B</i> <i>M3: Topic B</i> Divide Multi-Digit Numbers by One-Digit Numbers with Remainders <i>M3: Topic F</i>	Divide Multi-Digit Numbers by Two-Digit Numbers <i>M1: Topic C</i> Divide Decimals by Two-Digit Numbers <i>M4: Topic D</i> Divide with Unit Fractions and Whole Numbers <i>M3: Topic C</i>
Fractions as Numbers			Partition Objects into Halves, Thirds, and Fourths <i>M3: Topic C</i>	Representations of Unit Fractions <i>M5: Topics A, B</i> Representations of Non-Unit Fractions <i>M5: Topic C</i> Identify and Represent Equivalent Fractions Less Than or Equal to 1 with Units Halves, Fourths, Eighths, Thirds, and Sixths <i>M5: Topics C, E</i> Compare Fractions with the Same Numerator or Denominator <i>M5: Topics B, D</i>	Represent and Generate Equivalent Fractions Less Than or Equal to 1 <i>M4: Topics A, B</i> Represent and Generate Equivalent Fractions Greater Than 1 <i>M4: Topic B</i>	