



Scope & Sequence

Exploring Creation with Mathematics, Level 4

GRADE LEVEL: 4

TEXT SUMMARY: *Exploring Creation with Mathematics, Level 4* is designed to take the student's understanding of basic math concepts to the next level. Students learn new concepts in geometry and mathematical operations with fractions. The text is deliberate in providing examples of real-world applications and offers several practice opportunities and activities.

Unit 1: Numbers and Place Value

Chapter	Summary	Main Themes	Supporting Activities
CHAPTER 1 <i>Place Value</i>	The student will learn how to use place value to write numbers up to one million. The student will also learn how to write numbers in expanded and written forms and practice rounding numbers.	<ul style="list-style-type: none"> • Numbers to One Million • Numbers in Expanded Form • Numbers in Written Form • Comparing and Ordering • Rounding Numbers • Number Lines • Introduction to Problem Solving 	<ul style="list-style-type: none"> • Math Scavenger Hunt • Expanded Form Flip Book • State Exploration • Place Value Math Search • Roll and Round (to the nearest hundred) • Clothespin Number Line • Skill Check
CHAPTER 2 <i>Addition, Subtraction, and Estimation</i>	The student will practice adding and subtracting large numbers. The student will also learn how to estimate sums and differences.	<ul style="list-style-type: none"> • Adding Large Numbers • Subtracting Large Numbers • Addition and Subtraction Word Problems • Estimation 	<ul style="list-style-type: none"> • Adding Cut and Paste • Win the Fish Bowl • Estimation Sort • Skill Check • Unit 1 Project: Plan a Deep-Sea Exploration

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Unit 2: Multiplication

Chapter	Summary	Main Themes	Supporting Activities
CHAPTER 3 <i>Multiplication Fact</i>	The student will practice multiplication facts and learn square numbers.	<ul style="list-style-type: none"> • Facts Review 2 to 10 • Square Numbers • Mixed Fact Review • Problem Solving Skills (Make a List or Table) 	<ul style="list-style-type: none"> • Multiplication Fact War • Skip Counting by 3's • Cut and Stick 6's Multiplication Facts • 7's and 8's Mazes • Square Number Tower • Greatest Area • Skill Check
CHAPTER 4 <i>Multiply by 1-Digit Numbers</i>	The student will learn to multiply using base ten blocks. The student will work on estimating products, multiplying in expanded form and multiplying in vertical format.	<ul style="list-style-type: none"> • Multiplying with Base Ten Blocks • Multiplying 10's, 100's, and 1000's • Estimating Products • Multiply Using Expanded Form • Multiply Vertically • Multiply Vertically with Regrouping • Multiplication Word Problems 	<ul style="list-style-type: none"> • Base Ten Block Multiplication • Multiply 10's and 100's with Base Ten Blocks • Base Ten Block Multiplication Cut and Paste • The Distributive Property with Arrays • Multiplied Money • More Money Multiplication • Skill Check
CHAPTER 5 <i>Multiply by 2-Digit Numbers</i>	The student will multiply 2-digit numbers using base ten blocks, using expanded form, and in vertical format.	<ul style="list-style-type: none"> • Multiplying 2-Digit Numbers with Base Ten Blocks • Multiplying by Tens Numbers • Estimating Products • Multiplying in Expanded Form • Multiplying in Vertical Format • Multiplication Word Problems 	<ul style="list-style-type: none"> • Base Ten Block Multiplication • Ten Block Tens Multiplication • Grid Paper Multiplication • Estimating Two-Digit Products • Two Digit Multiplication Game • Skill Check • Unit 2 Project: Map Measurement

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Unit 3: Geometry

Chapter	Summary	Main Themes	Supporting Activities
CHAPTER 6 <i>Plane Figures</i>	The student will learn how to use the building blocks of geometry. The student will also explore and discover the characteristics of plane figures.	<ul style="list-style-type: none"> • The Building Blocks of Geometry • Circles • Triangles • Parallel, Perpendicular, and Intersecting Lines • Quadrilaterals • Symmetry • Rotational Symmetry • Problem Solving Skills (Act It Out) 	<ul style="list-style-type: none"> • Geometry Foldable • Drawing Circles • Drawing Triangles • Drawing Lines • Quadrilaterals Mini-Book • Drawing Quadrilaterals • Stingray Symmetry • Symmetry Spinners • Toothpick Puzzles • Skill Check
CHAPTER 7 <i>Angles</i>	The student will learn how to classify angles, estimate angle measurements, and measure and draw angles.	<ul style="list-style-type: none"> • Measuring Turns • Intro to Angles • Estimating Angles • Measuring Angles • Drawing Angles • Angle Word Problems 	<ul style="list-style-type: none"> • Splendid Spinning • Angles in Architecture • Angle Sort • Protractor Exploration • Drawing Angles • Name Angles • Skill Check • Unit 3 Project: Geometric Snowflakes

Unit 4: Division

Chapter	Summary	Main Themes	Supporting Activities
CHAPTER 8 <i>Division Facts</i>	The student will practice division facts and find square roots.	<ul style="list-style-type: none"> • Facts Review 2 to 10 • Square Roots • Mixed Fact Review • Problem Solving Skills (Guess and Check) 	<ul style="list-style-type: none"> • Division Flashcard War • Flashcard Related Facts • Capture the Square with 6's and 9's • Times Table Division • Find the Side • Capture the Square • Skill Check

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Unit 4: Division (Continued)

Chapter	Summary	Main Themes	Supporting Activities
CHAPTER 9 <i>Factors, Multiples, and Patterns</i>	The student will learn how to find factors and multiples of numbers. The student will also learn to use divisibility rules and patterns.	<ul style="list-style-type: none"> • Factors • Prime and Composite Numbers • Common Factors • Multiples • Common Multiples • Divisibility Rules and Patterns 	<ul style="list-style-type: none"> • Rectangle Factors • Multiplication Bingo • Factor Pairs Cut and Paste • Multiples on the Hundreds Chart • Number Patters • Skill Check
CHAPTER 10 <i>Divide by a 1-Digit Number</i>	The student will explore division with remainders, estimate quotients, and divide using the vertical format.	<ul style="list-style-type: none"> • Dividing 3-Digit and 4-Digit Numbers • Remainders • Dividing 10's, 100's, and 1000's • Estimating Quotients • Vertical Division • Mixed Word Problems 	<ul style="list-style-type: none"> • Dividing Money (I) • Left Over Snacks • Dividing Money (II) • Division Matching Activity • Estimation Scramble • Division Warmup (I) • Division Warmup (II) • Skill Check • Unit 4 Project: Beach Vacation

Unit 5: Measurement

Chapter	Summary	Main Themes	Supporting Activities
CHAPTER 11 <i>Area and Perimeter</i>	The student will be able to find the area of rectangles and composite figures. The student will also be able to find the perimeter of rectangles.	<ul style="list-style-type: none"> • Area of a Rectangle • Area of Composite Figures • Perimeter • Perimeter with Missing Lengths • Problem Solving Skills (Draw a Picture) 	<ul style="list-style-type: none"> • Greatest Area Game • Comparing Areas • Swimming Sidewalk • Comparing Areas and Perimeters • Drawing Rectangles • Skill Check
CHAPTER 12 <i>Measurement</i>	The student will learn measure length, weight and volume. The student will also learn to measure time to the second and find elapsed time.	<ul style="list-style-type: none"> • Measuring Length • Measuring Weight • Liquid Volume • Weight and Liquid Volume in Metric • Time to the Second • Elapsed Time 	<ul style="list-style-type: none"> • Measurement Exploration • Metric Measurement Exploration • Scale Exploration • Liquid Volume Review • Metric Measurements • Stand on One Leg • Skill Check • Unit 5 Project: Homemade Aquarium Exhibit.



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Unit 6: Fractions and Decimals

Chapter	Summary	Main Themes	Supporting Activities
CHAPTER 13 <i>Fractions</i>	The student will find equivalent fractions and compare fractions.	<ul style="list-style-type: none"> • Introduction to Fractions • Fractions on the Number Line • Equivalent Fractions with Fraction Tiles and Number Lines • Equivalent Fraction Relationships • Simplify Fractions • Comparing Fractions • Ordering Fractions 	<ul style="list-style-type: none"> • Fraction Roundup • Fraction Number Line Cut and Paste • Fill the Box Fraction Game • Fraction Dominoes • Spitting Fractions • Fraction Flowers • Fraction War • Compare to $\frac{1}{2}$ • Fraction Sort • Skill Check
CHAPTER 14 <i>Decimals</i>	The student will use decimals to represent tenths and hundredths. The student will also be able to label decimals on a number line and compare decimals.	<ul style="list-style-type: none"> • Introduction to Decimals • Tenths and Hundredths • Decimals on Number Lines • Decimals Greater Than 1 • Decimals and Equivalent Fractions • Comparing Decimals 	<ul style="list-style-type: none"> • Money Exploration • Base Ten Block Decimals (Part I) • Base Ten Block Decimals (Part II) • Draw a Number Line • Decimal Review Cut and Paste (I) • Decimals in Real Life • Decimal Review Cut and Paste (II) • Decimal Number Line • Decimal Scavenger Hunt • Skill Check
CHAPTER 15 <i>Operations with Fractions</i>	The student will add and subtract fractions with like denominators, add and subtract mixed numbers, and multiply fractions by a whole number.	<ul style="list-style-type: none"> • Adding and Subtracting Fractions • Mixed Numbers • Improper Fractions and Mixed Numbers • Adding and Subtracting Mixed Numbers • Multiplying Unit Fractions • Multiplying a Fraction by a Whole Number • Problem Solving Skills (Work Backwards) 	<ul style="list-style-type: none"> • Fraction Food Addition • Fraction Tile Exploration • Measuring Mixed Numbers • Pattern Block Mixed Numbers • Pattern Block Addition • Pattern Block Subtraction • Fraction Tile Multiplication • Measuring Cup Fractions • Fraction Maze • Skill Check • Unit 6 Project: Cooking Up Fractions

ADDITIONAL INFORMATION: All consumable materials found in the Answer Key are also available as a PDF on the title's Book Extras site. There are also additional PDF worksheets available for struggling students.