



## Scope & Sequence

### Exploring Creation with Mathematics, Level 5

**GRADE LEVEL:** 5

**TEXT SUMMARY:** *Exploring Creation with Mathematics*, Level 5 is designed to launch your mind on an educational journey to learn how numbers help us describe our world and universe. Students will learn new concepts in mathematical operations including multiplication, fractions, decimals, geometry, percents, and graphing. The text is deliberate in providing examples of real-world applications and offers several practice opportunities and activities.

#### Unit 1: Whole Numbers

Chapter	Summary	Main Themes	Supporting Activities
<b>CHAPTER 1</b> <i>Place Value &amp; Powers of Ten</i>	In this chapter the student will learn how to follow the order of operations. The student will also learn how to write numbers in expanded and written forms and use scientific notation.	<ul style="list-style-type: none"> <li>· Place Value Review</li> <li>· Order of Operations</li> <li>· Parentheses and Brackets</li> <li>· Powers of Ten</li> <li>· Powers of Ten and Expanded Form</li> <li>· Scientific Notation</li> <li>· Problem Solving</li> </ul>	<ul style="list-style-type: none"> <li>· Place Value Detective</li> <li>· Order Matters</li> <li>· Order Operations Shuffle</li> <li>· Roll, Write, and Expand</li> <li>· Powers of Ten Slider</li> <li>· Powers of Ten Matching Activity</li> <li>· Skills Check</li> </ul>
<b>CHAPTER 2</b> <i>Multiplication, Factors, and Multiples</i>	In this chapter, the student will learn to multiply multi-digit numbers, find multiples and factors, and identify prime and composite numbers.	<ul style="list-style-type: none"> <li>· Multiplying by Powers of Ten</li> <li>· Estimating Products</li> <li>· Multiply by 1-Digit Numbers</li> <li>· Multiply by 2-Digit Numbers</li> <li>· Multiply by Multi-Digit Numbers</li> <li>· Multiples and Factors</li> <li>· Prime and Composite Numbers</li> <li>· Multiplication Word Problems</li> </ul>	<ul style="list-style-type: none"> <li>· Powers of Ten Slider Review</li> <li>· Multiplying with Money</li> <li>· Factors Pairs Cut and Paste</li> <li>· Prime and Composite Rectangles</li> <li>· Skills Check</li> </ul>
<b>CHAPTER 3</b> <i>Division</i>	In this chapter the student will learn how to estimate quotients, as well as divide using repeated subtraction and long division.	<ul style="list-style-type: none"> <li>· Dividing by Powers of Ten</li> <li>· Estimating Quotients</li> <li>· Divide Using Subtraction</li> <li>· Dividing by 1-Digit Numbers in the Vertical Format</li> <li>· Dividing by 2-Digit Numbers in the Vertical Format</li> <li>· Division Review</li> <li>· Division Word Problems</li> </ul>	<ul style="list-style-type: none"> <li>· Powers of Ten Slider Division</li> <li>· Estimation Secret Message</li> <li>· Repeated Subtraction Scramble</li> <li>· Edible Base Ten Block Division</li> <li>· Long Division Flip Book</li> <li>· Long Division Scramble</li> <li>· Skills Check</li> <li>· <b>Unit 1 Project:</b> <b>Mathematical Clue Game</b></li> </ul>

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## Exploring Creation with Mathematics, Level 5

### Unit 2: Fractions

Chapter	Summary	Main Themes	Supporting Activities
<b>CHAPTER 4</b> <i>Adding And Subtracting Fractions</i>	The student will learn to find equivalent fractions and add and subtract fractions in this chapter.	<ul style="list-style-type: none"> <li>· Fraction Concepts</li> <li>· Equivalent Fractions</li> <li>· Simplifying Fractions</li> <li>· Adding Fractions with Unlike Denominators</li> <li>· Subtracting Fractions with Unlike Denominators</li> <li>· Adding and Subtracting Fractions Practice</li> <li>· Improper Fractions</li> <li>· Adding and Subtracting Mixed Numbers</li> </ul>	<ul style="list-style-type: none"> <li>· Fraction Recognition Bingo</li> <li>· Fill the Box Fraction Game</li> <li>· Domino Fractions</li> <li>· Fraction Tile Addition</li> <li>· Fraction Tile Subtraction</li> <li>· Edible Mixed Numbers</li> <li>· Making A New Whole</li> <li>· Skills Check</li> </ul>
<b>CHAPTER 5</b> <i>Multiplying Fractions</i>	In this chapter the student will learn to multiply fractions and mixed numbers.	<ul style="list-style-type: none"> <li>· Multiplying Whole Numbers And Fractions</li> <li>· Multiplying By Unit Fractions</li> <li>· Multiplying Fractions</li> <li>· Multiplying Mixed Numbers</li> <li>· Problem Solving Practice</li> </ul>	<ul style="list-style-type: none"> <li>· Pizzas and Graham Crackers</li> <li>· Folded Fractions (Pt. 1)</li> <li>· Folded Fractions (Pt. 2)</li> <li>· Skills Check</li> </ul>
<b>CHAPTER 6</b> <i>Dividing Fractions</i>	In this chapter the student will learn to divide fractions and solve multiplication and division word problems.	<ul style="list-style-type: none"> <li>· Reciprocals</li> <li>· Dividing A Unit Fraction By a Whole Number</li> <li>· Dividing A Fraction By A Whole Number</li> <li>· Dividing a Whole Number By A Unit Fraction</li> <li>· Dividing A Whole Number By A Fraction</li> <li>· Mixed Multiplication And Division Word Problems</li> </ul>	<ul style="list-style-type: none"> <li>· Tile Reciprocals</li> <li>· Pattern Block Fractions</li> <li>· Paper Strip Division</li> <li>· Dividing Fractions Matching Activity</li> <li>· Sharing Equally</li> <li>· Skills Check</li> <li>· <b>Unit 2 Project: Building A Straw Bridge</b></li> </ul>

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## Exploring Creation with Mathematics, Level 5

### Unit 3: Decimals

Chapter	Summary	Main Themes	Supporting Activities
<b>CHAPTER 7</b> <i>Adding And Subtracting Decimals</i>	In this chapter the student will learn how to use decimals to represent amounts as well as add and subtract decimals.	<ul style="list-style-type: none"> <li>· Decimals To The Thousandths Place</li> <li>· Decimals In Expanded Form</li> <li>· Compare And Order Decimals</li> <li>· Rounding And Estimating Decimals</li> <li>· Adding And Subtracting Decimals</li> <li>· Adding And Subtracting Decimals Additional Practice</li> <li>· Problem Solving Practice</li> </ul>	<ul style="list-style-type: none"> <li>· Ways to Pay</li> <li>· Decimal Coloring</li> <li>· Decimal Matching Cards</li> <li>· Base Ten Decimals</li> <li>· Decimal Bingo</li> <li>· Skills Check</li> </ul>
<b>CHAPTER 8</b> <i>Multiplying Decimals</i>	In this chapter the student will learn how to multiply decimals by ten, estimate decimal products, and multiply decimals using place value.	<ul style="list-style-type: none"> <li>· Multiplying Decimals By Tens</li> <li>· Multiplying Whole Numbers By 0.1 And 0.01</li> <li>· Multiplying Decimals By Whole Numbers</li> <li>· Multiplying Using A Grid</li> <li>· Multiply Decimals</li> <li>· Field Trip Lunch</li> </ul>	<ul style="list-style-type: none"> <li>· Powers of Ten Slider</li> <li>· Decimal Multiplication with Base Ten Blocks</li> <li>· Multiplying Using An Area Model</li> <li>· Field Trip Lunch</li> <li>· Skills Check</li> </ul>
<b>CHAPTER 9</b> <i>Dividing Decimals</i>	In this chapter the student will learn how to divide decimals by tens, estimate decimal quotients, and divide decimals using place value.	<ul style="list-style-type: none"> <li>· Divide Decimals By Tens</li> <li>· Estimating Decimal Division</li> <li>· Dividing Whole Numbers</li> <li>· Dividing Decimals By Whole Numbers</li> <li>· Dividing Decimals (Part One)</li> <li>· Dividing Decimals (Part Two)</li> <li>· Decimal Word Problems</li> </ul>	<ul style="list-style-type: none"> <li>· Powers of Ten Slider</li> <li>· Estimation Sort</li> <li>· Splitting the Bill</li> <li>· Base Ten Block Division</li> <li>· Souvenir Coins</li> <li>· Skills Check</li> <li>· <b>Unit 3 Project: Bubbling Balloons</b></li> </ul>

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### *Exploring Creation with Mathematics, Level 5*

#### Unit 4: Geometry and Measurements

Chapter	Summary	Main Themes	Supporting Activities
<b>CHAPTER 10</b> <i>Geometry</i>	<p>In this chapter the student will learn to find the volume of rectangular prisms and identify the characteristics of polygons, triangles, and quadrilaterals.</p>	<ul style="list-style-type: none"> <li>· Area Review</li> <li>· Find Volume Using Unit Cubes</li> <li>· Volume of Rectangular Prisms</li> <li>· Volume Formula For Rectangular Prisms</li> <li>· Volume Of Composite Figures</li> <li>· Polygons</li> <li>· Triangles</li> <li>· Quadrilaterals</li> </ul>	<ul style="list-style-type: none"> <li>· Capacity and Volume Exploration</li> <li>· Cube Sculptures</li> <li>· Box Nets</li> <li>· Sugar Cube Rectangular Prisms</li> <li>· Build a Composite Figure</li> <li>· Polygon Collage</li> <li>· Triangle Foldable</li> <li>· Quadrilaterals Cut and Paste</li> <li>· Skills Check</li> </ul>
<b>CHAPTER 11</b> <i>Conversions</i>	<p>The student will learn how to convert units of time as well as convert in the metric and customary systems.</p>	<ul style="list-style-type: none"> <li>· Elapsed Time</li> <li>· Converting Time</li> <li>· Converting Metric Lengths</li> <li>· Metric Capacity And Weight</li> <li>· Customary Length</li> <li>· Customary Volume And Weight</li> <li>· Two-Step Conversions</li> <li>· Problem Solving Practice</li> </ul>	<ul style="list-style-type: none"> <li>· The Race to 6 O’Clock</li> <li>· Metric Matching</li> <li>· Metric Length Cut and Paste</li> <li>· Activity Title</li> <li>· Age in Days</li> <li>· Skills Check</li> <li>· <b>Unit 4 Project: Build A Balloon Car</b></li> </ul>

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### *Exploring Creation with Mathematics, Level 5*

#### Unit 5: Percents

Chapter	Summary	Main Themes	Supporting Activities
<p><b>CHAPTER 12</b> <i>Introduction To Percents</i></p>	<p>In this chapter the student will learn how to represent amounts with percents. The student will also learn to convert between fractions, decimals, and percents</p>	<ul style="list-style-type: none"> <li>· Percents In The World</li> <li>· Picturing Percents</li> <li>· Percents On A Number Line</li> <li>· Percent To Fraction</li> <li>· Percent To Decimal</li> <li>· Fractions, Decimals And Percents</li> <li>· Compare And Order Percents</li> <li>· Percents Mini-Project</li> </ul>	<ul style="list-style-type: none"> <li>· Percent Collage</li> <li>· Percents in the Refrigerator</li> <li>· Percent Number Line Cut and Paste</li> <li>· Fraction, Decimal, and Percents Dominoes</li> <li>· Fraction, Decimal, and Percents Puzzle</li> <li>· Skills Check</li> </ul>
<p><b>CHAPTER 13</b> <i>Percent Operations</i></p>	<p>This chapter will teach the student how to find a percent, find the percent of a number, and create circle graphs.</p>	<ul style="list-style-type: none"> <li>· Finding A Percent (Using Fractions)</li> <li>· Finding A Percent (Using Decimals)</li> <li>· Percent Of A Number</li> <li>· Circle Graphs</li> <li>· Creating A Circle Graph</li> <li>· Problem Solving Practice</li> </ul>	<ul style="list-style-type: none"> <li>· Colorful Candy</li> <li>· Fraction, Decimal, and Percent Dominoes</li> <li>· Edible Percents</li> <li>· Common Fractions and Percents</li> <li>· Make Your Own Circle Graph</li> <li>· Skills Check</li> <li>· <b>Unit 5 Project: Managing A Million</b></li> </ul>

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## Exploring Creation with Mathematics, Level 5

### Unit 6: Graphing

Chapter	Summary	Main Themes	Supporting Activities
<b>CHAPTER 14</b> <i>Data And Graphs</i>	<p>In this chapter the student will learn how to organize data into tables, create and analyze graphs, and find an average.</p>	<ul style="list-style-type: none"> <li>· Data and Tables</li> <li>· Picture Graphs And Bar Graphs</li> <li>· Averages Graphically</li> <li>· Averages Algebraically</li> <li>· Create Line Plots</li> <li>· Analyze Line Plots</li> <li>· Averages On Data Displays</li> <li>· Create Line Graphs</li> <li>· Analyze Line Graphs</li> <li>· Wolf Data</li> <li>· Problem Solving Poster</li> </ul>	<ul style="list-style-type: none"> <li>· Snack Mix Data</li> <li>· Create Your Own Survey</li> <li>· Average Towers</li> <li>· Paper Airplane Flights</li> <li>· M&amp;M and Pencil Length Line Plots</li> <li>· Book Measurements</li> <li>· Line Plot Averages</li> <li>· Weather Line Graph</li> <li>· Exploding Marshmallows</li> <li>· Wolf Refuge Data Displays</li> <li>· Skills Check</li> </ul>
<b>CHAPTER 15</b> <i>Graphing on the Coordinate Plane</i>	<p>In this chapter the student will learn how to draw and label a coordinate plane as well as how to graph points on a coordinate plane.</p>	<ul style="list-style-type: none"> <li>· Number Lines</li> <li>· Mapping On A Grid</li> <li>· The Coordinate Plane</li> <li>· Points On The Coordinate Plane (Part One)</li> <li>· Points On The Coordinate Plane (Part Two)</li> <li>· Graphing Practice</li> <li>· Coordinate Graph Tic-Tac-Toe</li> </ul>	<ul style="list-style-type: none"> <li>· Magnetic Number Line</li> <li>· Making a Map Grid</li> <li>· Make A Coordinate Plane</li> <li>· Double Number Line Coordinate Plane</li> <li>· Plotting Points</li> <li>· Graphing Points with Zero Coordinates</li> <li>· Coordinate Graph Tic-Tac-Toe</li> <li>· Skills Check</li> <li>· <b>Unit 6 Project: Favorite Animal Data Poster</b></li> </ul>

**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.