

Scope & Sequence

Exploring Creation with Mathematics, Level 2

GRADE LEVEL: 2

TEXT SUMMARY: *Exploring Creation with Mathematics*, Level 2 is designed to expand students' knowledge of larger numbers and challenge students in their addition and subtraction skills. This text also begins to develop students' understanding of time, money, measurement, and geometry.

Unit 1: Number Sense and Place Value

Lesson	Summary	Main Themes	Supporting Activities
CHAPTER 1 <i>Numbers and Patterns</i>	The student will review place value and be able to represent two-digit numbers in standard and expanded form. The student will also be able to determine if a number is even or odd.	<ul style="list-style-type: none"> • Place Value • Expanded Form • Number Word Names • Comparing Numbers • Putting Numbers in Order • Even and Odd Numbers 	<ul style="list-style-type: none"> • Place Value Exploration • Tens and Ones • Right Digit, Right Place • Number Matching Cards • Build and Compare Base Ten Challenge • Find Your Partner • Tower Pairs • Final Digits
CHAPTER 2 <i>Numbers to 1000</i>	The student will practice counting to 1000 and learn to write three-digit numbers in different ways. The student will also learn how to compare three-digit numbers.	<ul style="list-style-type: none"> • Finding Patterns • Skip Counting • Count to 1,000 • Tens and Hundreds • Three-Digit Numbers • Place Value to 1,000 • Word Names up to 1,000 • 10 More, 10 Less, 100 More, 100 Less • Compare Numbers up to 1,000 	<ul style="list-style-type: none"> • Count to 100 Challenge • Counting up to 50 • The 700's Chart • How Much is 1,000? • Counting Above 100 • Building with Base Ten Blocks • Guess the Number • Make It and Write It • Matching Game • Roll, Build, Draw, Write • Build and Compare • Place Value Yahtzee Unit Review

UNIT 2: Addition and Subtraction with Two-Digit Numbers

Lesson	Summary	Main Themes	Supporting Activities
CHAPTER 3 <i>Addition and Subtraction within 20</i>	The student will learn how to use doubles facts, the bar model, and other strategies to solve addition and subtraction problems.	<ul style="list-style-type: none"> • Doubles Facts Plus or Minus One • Addition Facts • Make a 10 to Add • Add 3 Numbers • Subtraction Facts • Making 10 to Subtract • Addition and Subtraction are Related 	<ul style="list-style-type: none"> • Doubles Bingo • Doubles Plus or Minus One Game • Fishing for Tens • Dice Bingo • Subtraction Flashcard Families • Toppling Towers of 15 • Make That Number... One Way or Another



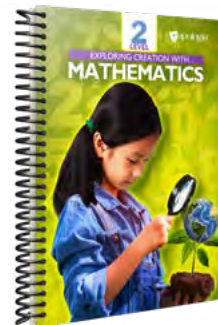
Scope & Sequence

Exploring Creation with Mathematics, Level 2

UNIT 2: Addition and Subtraction with Two-Digit Numbers (Continued)

Lesson	Summary	Main Themes	Supporting Activities
CHAPTER 4 <i>Going Deeper with Addition and Subtraction</i>	The student will learn how to choose the best subtraction strategy when solving a problem. The student will also practice using the bar model and repeated addition.	<ul style="list-style-type: none"> • Adding Even and Odd Numbers • Choosing the Best Subtraction Strategy • The Bar Model • Repeated Addition • Equal Groups 	<ul style="list-style-type: none"> • Even and Odd Sums • Sort the Facts • Create Your Own Problem • Counting Arrays • Array Matching • Cookie Counter
CHAPTER 5 <i>Adding Two-Digit Numbers</i>	The student will learn how to add two-digit numbers using compensation. The student will also learn how to add two-digit numbers in expanded form and using the vertical format. Adding 3 and 4 numbers together will also be practiced.	<ul style="list-style-type: none"> • Adding One-Digit Numbers to a Two-Digit Number • Adding Two-Digit Numbers by Using Compensation • Adding Two-Digit Numbers in Expanded Form • Regrouping with Base Ten Blocks • Adding Two-Digit Numbers in the Vertical Format • Word Problem Workshop • Adding 3 & 4 Two-Digit Numbers 	<ul style="list-style-type: none"> • Base Ten Block Addition • Bump It Up! • Styrofoam Cup Numbers • Choose Your Method • Flashcard Warmup • Two-Digit Addition Spinners • Make the Greatest • Four in a Row • Roll and Add
CHAPTER 6 <i>Subtracting Two-Digit Numbers</i>	The student will subtract two-digit numbers using different strategies and practice using vertical format.	<ul style="list-style-type: none"> • Subtracting a One-Digit Number from a Two-Digit Number • Two-Digit Subtraction with Number Lines • Subtraction with Base Ten Blocks • Subtraction Using Expanded Form • Subtraction with Regrouping in the Vertical Format • Word Problems 	<ul style="list-style-type: none"> • Foldable Number Line • Subtracting with a Number Line • One Number 2 Ways • To Regroup or Not to Regroup? • Race to Zero • Two Digit Subtraction Spinners • Find What's Missing • Bar Model Matching Activity • Two-Digit Addition and Subtraction Poster

Continued on next page.



Scope & Sequence

Exploring Creation with Mathematics, Level 2

UNIT 3: Money and Time

Lesson	Summary	Main Themes	Supporting Activities
CHAPTER 7 <i>Money</i>	The student will practice counting coins and amounts over one dollar.	<ul style="list-style-type: none"> • Coin Exploration • Counting Up Coins • Making Amounts in Different Ways • The Dollar Bill • Amounts Over One Dollar • Shopping with Money 	<ul style="list-style-type: none"> • Coin Exploration • Charlie's Chores • Make 25 Cents • Coin War • Make a Dollar • Spin to a Dollar • Spin Beyond a Dollar
CHAPTER 8 <i>Time</i>	The student will learn to tell time to the nearest 5 minutes and be able to use a.m. and p.m.	<ul style="list-style-type: none"> • Time to the Hour and Half Hour • Time to 5 Minutes • A.M. and P. M. 	<ul style="list-style-type: none"> • Paper Plate Clock • Tell the Time Throughout Your Day • Using Your Paper Plate Clock • Make Your Own Catalog

UNIT 4: Addition and Subtraction with Three-Digit Numbers

Lesson	Summary	Main Themes	Supporting Activities
CHAPTER 9 <i>Adding Three-Digit Numbers</i>	The student will practice adding three-digit numbers using base ten blocks and will add three-digit numbers in expanded form and vertical form.	<ul style="list-style-type: none"> • Review Two-Digit Addition • Adding Three-Digit Numbers by Drawing • Adding Three-Digit Numbers in Expanded Form • Adding Three-Digit Numbers in the Vertical Format 	<ul style="list-style-type: none"> • Addition Poster Review • Building Three-Digit Numbers • Edible Base Ten Blocks • Styrofoam Cup Numbers • Roll and Add in Expanded Form • Roll and Add in Vertical Format
CHAPTER 10 <i>Subtracting Three-Digit Numbers</i>	The student will learn how to subtract three-digit numbers using base ten blocks, by drawing, and in vertical format.	<ul style="list-style-type: none"> • Subtracting Three-Digit Numbers with Base Ten Blocks • Subtracting Three-Digit Numbers by Drawing • Subtracting Three-Digit Numbers in the Vertical Format • Subtracting Three-Digit Numbers with Zeros • Subtracting Three-Digit Numbers Mixed Review 	<ul style="list-style-type: none"> • Subtraction Poster Review • Race to Zero • Smallest Difference • The Biggest Difference • Plan Your Own Party



Scope & Sequence

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UNIT 5: Measurement and Data

Lesson	Summary	Main Themes	Supporting Activities
CHAPTER 11 <i>Measuring Length</i>	The student will practice taking measurements in inches and feet using a ruler and tape measure and learn how to estimate and compare measurements.	<ul style="list-style-type: none"> • Rounding • Inches • Measuring in Inches with a Ruler • Estimating Measurements in Inches • Feet • Estimating Measurements in Feet • Comparing Measurements • Measurement Word Problems 	<ul style="list-style-type: none"> • Measuring Plant Growth • How Many Inches? • Finding a 5 Inch Object • Playdough Worms • Measurement Monsters • How Many Feet? • Exploring the Tape Measure • How Tall Are You? • Write Your Own Word Problem
CHAPTER 12 <i>Measuring Length with a Different System</i>	The student will learn how to use metric measurements of centimeters and meters and be able to estimate and compare measurement.	<ul style="list-style-type: none"> • Centimeters • Measuring in Centimeters with a Ruler • Estimating Measurements in Centimeters • Meters • Comparing Measurements and Word Problems 	<ul style="list-style-type: none"> • How Many Centimeters? • Finding a Ten Centimeter Object • Make a Meter String • Which is Greater?
CHAPTER 13 <i>Data and Graphs</i>	The student will learn how to record data on a tally chart and create and analyze picture, bar, and line graphs.	<ul style="list-style-type: none"> • Collecting Data • Picture Graphs • Bar Graphs • Line Graphs 	<ul style="list-style-type: none"> • Grab and Tally • Make a Picture Graph • A Pop-Up Bar Graph • Expanding Balloon Experiment • Graphing and Analyzing Data

UNIT 6: Addition and Subtraction with Two-Digit Numbers

Lesson	Summary	Main Themes	Supporting Activities
CHAPTER 14 <i>Shapes</i>	The student will learn how to describe 3D and 2D shapes and practice identifying angles, symmetry, and equal parts.	<ul style="list-style-type: none"> • 3D Shape Exploration • 3D Shape Attributes • 2D Shapes • Angles • Symmetry • Equal Parts • Equal Parts Word Problems 	<ul style="list-style-type: none"> • Playdough Models • Paper Shapes • Marshmallow Shapes • Shape Sort • Dot Paper Shape • Mirror Image • Playdough Parts • Pizza Party!

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.