

Course Description:

During the first semester students will build fluency with basic math facts. They will learn to count to 100, basic addition and subtraction facts, and how to add double-digit numbers. Students will be introduced to such new concepts as word problems, Venn diagrams, and basic geometric concepts.

There is an emphasis on learning practical skills such as reading thermometers, looking at maps, and understanding the value of coins.

Students will have multiple opportunities to practice new skills and knowledge through using integrated online practice problems.

Module	Lesson/Activity	Objectives
1	From Zero to Nine	<ul style="list-style-type: none"> Count to nine using number words and numerals.
	Number Words: Online Practice	<ul style="list-style-type: none"> Count to nine using number words and numerals.
	Grouping and Counting	<ul style="list-style-type: none"> Group and count similar items. Skip count by 2.
	Counting By 1: Online Practice	<ul style="list-style-type: none"> Identify the missing number by counting by 1.
	Name that Numeral	<ul style="list-style-type: none"> Write the correct numeral for a given set. Create numerals out of common materials. Write the numerals 1 through 9.
	Match Sets of Numbers: Online Practice	<ul style="list-style-type: none"> Match groups that have the same number of objects.
	Number the Bones	<ul style="list-style-type: none"> Fill in the missing numbers when counting by 1.
	Count Up and Down: Online Practice	<ul style="list-style-type: none"> Count up and down by 1.
2	Making Patterns	<ul style="list-style-type: none"> Recognize, describe, and create both AB and AAB patterns.
	Make the Pattern: Online Practice	<ul style="list-style-type: none"> Finish AB and AAB patterns.
	Matching Sets	<ul style="list-style-type: none"> Match a set with an equal number of items.
	Same or Different: Online Practice	<ul style="list-style-type: none"> Identify whether sets have the same or different number of objects.
	Most or Least	<ul style="list-style-type: none"> Select the set with the most and least items.

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	Greatest Number: Online Practice	<ul style="list-style-type: none"> Identify set with the greater number of objects.
	Greater Than or Less Than	<ul style="list-style-type: none"> Use the greater than and less than symbols to compare two numbers.
	Compare Numbers: Online Practice	<ul style="list-style-type: none"> Compare numbers to a given number.
3	Comparing Length	<ul style="list-style-type: none"> Compare two items by length.
	Adding Two Numbers	<ul style="list-style-type: none"> Add two numbers. Identify two numbers that have a specific sum.
	Add Them Up: Online Practice	<ul style="list-style-type: none"> Identify two numbers that have a specific sum.
	Comparing Weight	<ul style="list-style-type: none"> Use the terms lighter and heavier to compare weight.
	Compare Weights: Online Practice	<ul style="list-style-type: none"> Compare weights of two objects using a scale.
	Logic Puzzles	<ul style="list-style-type: none"> Make a selection based on observation and clues.
	Count It!	<ul style="list-style-type: none"> Counting up and down. Skip count by 2.
	Missing Numbers: Online Practice	<ul style="list-style-type: none"> Identify the missing number in a given sequence.
4	Position Words	<ul style="list-style-type: none"> Identify comparison and position word pairs.
	Left, Right, and Middle: Online Practice	<ul style="list-style-type: none"> Identify which objects are on left, right, or middle.
	Top, Bottom, and Middle: Online Practice	<ul style="list-style-type: none"> Identify which objects are top, bottom, or middle.
	Ten: Addition Facts	<ul style="list-style-type: none"> Practice the addition facts of ten.
	Addition Facts: Online Practice	<ul style="list-style-type: none"> Practice the addition facts of ten.
	Pattern Finder	<ul style="list-style-type: none"> Observe and recreate patterns using visual memory.
	Coins!	<ul style="list-style-type: none"> Recognize pennies, nickels, and dimes. Add pennies, nickels, and dimes. Use the cent symbol.
	Nonstandard Measurements	<ul style="list-style-type: none"> Measure objects using nonstandard unit. Measure an object with units of two different lengths, and describe how and why the measurements differ.

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5	Measure Length with Objects: Online Practice	<ul style="list-style-type: none"> Use non-standard measurements to measure objects.
	The Hour	<ul style="list-style-type: none"> Read the hour on a clock.
	Tell Time: Online Practice	<ul style="list-style-type: none"> Tell time to the hour.
	Even or Odd	<ul style="list-style-type: none"> Identify even and odd numbers. Group sets of items into even and odd groups.
	Even or Odd: Online Practice	<ul style="list-style-type: none"> Distinguish between even and odd numbers.
	Position Words: Inside or Outside	<ul style="list-style-type: none"> Identify a point's location using the words inside and outside.
	Equivalent Sums	<ul style="list-style-type: none"> Create equivalent but easier or known sums up to 10.
	Take Away	<ul style="list-style-type: none"> Subtract two numbers with a minuend less than 6.
6	Subtraction Facts	<ul style="list-style-type: none"> Solve subtraction problems.
	Subtract One Digit Numbers: Online Practice	<ul style="list-style-type: none"> Subtract two numbers with a minuend less than 6.
	Regrouping	<ul style="list-style-type: none"> Add three numbers with a sum less than ten. Regroup numbers.
	Add Three Numbers: Online Practice	<ul style="list-style-type: none"> Add three one-digit numbers.
	Sets	<ul style="list-style-type: none"> Identify a set that has one less number than a given set. Identify shared characteristics of members of a set.
	Eleven: Online Practice	<ul style="list-style-type: none"> Count to 11.
	Eleven: Addition Facts	<ul style="list-style-type: none"> Correctly do the addition facts of 11.
	Count to 29: Online Practice	<ul style="list-style-type: none"> Count to 29.
7	Cardinal Directions	<ul style="list-style-type: none"> Give and follow directions using location terms.
	Find Your Way: Online Practice	<ul style="list-style-type: none"> Give directions using cardinal directions.
	Subtraction Word Problems	<ul style="list-style-type: none"> Subtract 2 numbers with a minuend less than 8 using a ten frame. Use problem-solving strategies to solve subtraction word problems.

Module	Lesson/Activity	Objectives
	Find the Difference: Online Practice	<ul style="list-style-type: none"> Subtract two numbers with a minuend less than 8.
	Horizontal, Vertical, or Diagonal	<ul style="list-style-type: none"> Identify vertical, diagonal, and horizontal objects.
	Count to 49: Online Practice	<ul style="list-style-type: none"> Count to 49.
	Counting Tally Marks	<ul style="list-style-type: none"> Use tally marks to count.
	Tally Charts: Online Practice	<ul style="list-style-type: none"> Match groups of objects to the correct tally.
8	Ten-Frame Counting	<ul style="list-style-type: none"> Use ten frames to count up numbers greater than 10.
	Count to 39: Online Practice	<ul style="list-style-type: none"> Count to 39.
	Temperature	<ul style="list-style-type: none"> Measure temperature using a thermometer. Distinguish between hot and cold temperatures.
	Read the Thermometer: Online Practice	<ul style="list-style-type: none"> Read a thermometer.
	Weight	<ul style="list-style-type: none"> Compare the weights of objects.
	Minuends Less Than 10	<ul style="list-style-type: none"> Subtract 2 one-digit numbers with a minuend less than 10.
	Order of Events	<ul style="list-style-type: none"> Put events in order.
	Logical Order: Online Practice	<ul style="list-style-type: none"> Put days of the week in logical order.
9	Number Words: Zero to Ten	<ul style="list-style-type: none"> Recognize words zero, one, two, three, four, five, six, seven, eight, nine, and ten.
	Match the Numbers: Online Practice	<ul style="list-style-type: none"> Match sets to the number word that represents the number of objects in the set.
	Represent Numbers	<ul style="list-style-type: none"> Represent numbers in multiple ways. Represent numbers with movement. Represent numbers in numerals, words, tallies, objects, and addition and subtraction expressions.
	Ways to Make a Number: Online Practice	<ul style="list-style-type: none"> Represent numbers in addition and subtraction expressions.
	Place Value	<ul style="list-style-type: none"> Select the number with the greatest value. Determine the place value in numbers.

Module	Lesson/Activity	Objectives
	Identify 2-D Shapes: Online Practice	<ul style="list-style-type: none"> Identify two-dimensional shapes by name.
	Shape Shades	<ul style="list-style-type: none"> Find multiple geometric shapes in one complex figure.
	The Shape of Things: Online Practice	<ul style="list-style-type: none"> Analyze real-world objects and determine which three-dimensional figure they match.
10	Do You Have Enough?	<ul style="list-style-type: none"> Count money and determine if there is enough to make a purchase. Find the value of combinations of pennies, nickels, and dimes up to one dollar. Find the value of combinations of one, five, and ten dollar bills up to \$100. Use the ¢ and \$ symbols appropriately.
	Count the Money: Online Practice	<ul style="list-style-type: none"> Count money.
	Double-Digit Addition	<ul style="list-style-type: none"> Add one- and two-digit numbers with a sum of less than 20.
	Weighing In	<ul style="list-style-type: none"> Select the number with the least value. Determine which of four objects weighs the least.
	Compare Weights: Online Practice	<ul style="list-style-type: none"> Analyze sets of objects and determine which is heavier and lighter.
	Thirteen: Addition Facts	<ul style="list-style-type: none"> Practice the addition facts of 13.
	The Nearest Inch	<ul style="list-style-type: none"> Measure objects to the nearest inch.
	Measure Using an Inch Ruler: Online Practice	<ul style="list-style-type: none"> Measure objects to the nearest inch.
11	Combinations	<ul style="list-style-type: none"> Combine shapes to form new geometric shapes.
	Count to 59: Online Practice	<ul style="list-style-type: none"> Count to 59.
	Subtraction Number Sentences	<ul style="list-style-type: none"> Write number sentences using subtraction.
	Subtract Using the Number Line: Online Practice	<ul style="list-style-type: none"> Subtract two numbers using the number line.
	Subtraction Facts to 12	<ul style="list-style-type: none"> Subtract facts up through 12.
	Using Number Lines to Subtract Below Ten: Online Practice	<ul style="list-style-type: none"> Subtract two numbers using the number line.
	Ordinals: First to Tenth	<ul style="list-style-type: none"> Recognize and write ordinals first through tenth.
	Ordinal Numbers: Online Practice	<ul style="list-style-type: none"> Identify objects by their ordinal number in a line.
	Naming Shapes: Online Practice	

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12	Create Polygons	<ul style="list-style-type: none"> Create new shapes from smaller shapes.
	The Half Hour	<ul style="list-style-type: none"> Tell time by the half-hour.
	Tell Time: Online Practice	<ul style="list-style-type: none"> Tell time by the half-hour.
	Choose the Time: Online Practice	<ul style="list-style-type: none"> Match analog clocks to digital clocks of the same time.
	Measure and Compare Weight	<ul style="list-style-type: none"> Weigh various objects.
	Grouping Light and Heavy: Online Practice	<ul style="list-style-type: none"> Sort items by light and heavy.
	Creating Shapes	<ul style="list-style-type: none"> Create geometric shapes by moving lines.
13	Probability	<ul style="list-style-type: none"> "Determine probability of rolling dice, using terms more, less, and equally likely. Complete a probability chart."
	Count to 69: Online Practice	<ul style="list-style-type: none"> Count to 69.
	Number Sentences	<ul style="list-style-type: none"> Write number sentences from addition and subtraction word problems.
	Working with Number Sentences: Online Practice	<ul style="list-style-type: none"> Find the missing number or symbol in a number sentence.
	Choosing the Correct Sign: Online Practice	<ul style="list-style-type: none"> Choose the correct sign to make a number sentence correct.
	Group by 10's	<ul style="list-style-type: none"> Group by tens when counting over 19.
	Groups of 10: Online Practice	<ul style="list-style-type: none"> Make groups of ten.
	Fourteen: Addition Facts	<ul style="list-style-type: none"> Practice the addition facts of 14.
14	Measuring Volume	<ul style="list-style-type: none"> Use various tools to measure volume.
	Traits	<ul style="list-style-type: none"> Use traits to group people and objects into sets.
	Tally Charts	<ul style="list-style-type: none"> Count tally marks. Interpret data. Gather information from tally charts. Categorize geometric figures by their defining attributes using a tally chart.
	Tally Charts: Online Practice	<ul style="list-style-type: none"> Interpret data from tally charts.

Module	Lesson/Activity	Objectives
	Subtraction Facts of 13	<ul style="list-style-type: none"> Practice the subtraction facts of 13.
	Venn Diagrams	<ul style="list-style-type: none"> Sort geometric figures and animals using a Venn diagram.
	Venn Diagrams: Online Practice	<ul style="list-style-type: none"> Sort shapes using a Venn diagram.
	Sort Shapes: Online Practice	<ul style="list-style-type: none"> Identify which part of a Venn diagram a shape goes into.
15	Logical Order	<ul style="list-style-type: none"> Arrange a series of events in a logical order.
	Following Directions	<ul style="list-style-type: none"> Find a location based on verbal directions. Listen and follow directions through active motions and coloring.
	Equals and Equations	<ul style="list-style-type: none"> Use an equals sign to show same amount on both sides of an equation. Balance equations. Solve math word problems using an equation.
	Balanced Equations: Online Practice	<ul style="list-style-type: none"> Fill in the missing number in an equation to balance it.
	Adding with a Number Line	<ul style="list-style-type: none"> Solve addition problems by using a number line.
	Using Number Lines to Add Up to Ten: Online Practice	<ul style="list-style-type: none"> Use a number line to add up to 10.
	Repeating & Growing Patterns	<ul style="list-style-type: none"> Differentiate between repeating patterns and growing patterns. Continue repeating and growing patterns.
	Subtracting with a Number Line	<ul style="list-style-type: none"> Solve subtraction problems using a number line.
16	Equivalent Coins	<ul style="list-style-type: none"> Make equivalent amounts with different groups of coins. Identify coin values.
	Find the Equivalent Coins: Online Practice	<ul style="list-style-type: none"> Match groups of coins that have the same value.
	More Number Words	<ul style="list-style-type: none"> Recognize the number words eleven, twelve, thirteen, fourteen, fifteen, twenty, thirty, and forty.
	The Nearest Centimeter	<ul style="list-style-type: none"> Measure a line segment to the nearest centimeter.
	Measure Using a Centimeter Ruler: Online Practice	<ul style="list-style-type: none"> Measure an object to the nearest centimeter.
	Addition Facts to 18	<ul style="list-style-type: none"> Learn the addition facts of 15, 16, 17, and 18.

Module	Lesson/Activity	Objectives
	Tens & Ones	<ul style="list-style-type: none"> Recognize and write numbers represented by tens and ones. Count unit blocks and rods by tens and ones.
	Match the Number: Online Practice	<ul style="list-style-type: none"> Match the number using place value (base ten) blocks.
17	Word Problems	<ul style="list-style-type: none"> Solve word problems using addition.
	Word Problem Addition Sentences: Online Practice	<ul style="list-style-type: none"> Identify the addition sentences that match a given word problem.
	Mirror It!	<ul style="list-style-type: none"> Create mirror images of shapes.
	Mirror Images: Online Practice	<ul style="list-style-type: none"> Distinguish between mirror and non-mirror images.
	Spending and Saving	<ul style="list-style-type: none"> Demonstrate knowledge of spending Demonstrate knowledge of saving.
	Exact Change: Online Practice	<ul style="list-style-type: none"> Identify the coins to make exact change.
	Capacity	<ul style="list-style-type: none"> Read scales to measure capacity.
	Subtraction Facts of 14	<ul style="list-style-type: none"> Subtract from 14.
18	Skip-Counting	<ul style="list-style-type: none"> Recognize a number series counting by 1, 2, 3, 5, or 10.
	Putting Numbers in Order	<ul style="list-style-type: none"> Put three numbers in order from smallest to largest.
	Order Numbers: Online Practice	<ul style="list-style-type: none"> Order numbers from least to greatest.
	Making Number Sentences	<ul style="list-style-type: none"> Solve addition and subtraction problems using a number line.
	Subtraction Facts of 15	<ul style="list-style-type: none"> Solve the subtraction facts of 15.
	Subtraction Facts of 15: Online Practice	<ul style="list-style-type: none"> Solve the subtraction facts of 15.
	Fact Families	<ul style="list-style-type: none"> Identify numbers within a fact family. Solve addition and subtraction problems as part of a fact family.
	Fact Families: Online Practice	<ul style="list-style-type: none"> Identify number sentences that make up a fact family.