

Course Description:

During the first semester students will build fluency with basic math facts, and add and subtract within 100 to solve word problems using strategic methods. Students will also manipulate numbers to 1000 using knowledge of hundreds, tens, and ones. Lastly, students will demonstrate arrays with repeated addition.

Materials Needed:

32 Counters (pennies, buttons, beans)

Bag of beans

Yellow Highlighter

Module	Activity Type	Title	Objectives
1	Lesson	Counting Up and Back to Add and Subtract	<ul style="list-style-type: none"> • Use the "count on" and "count back" strategies to add and subtract within 20. • Distinguish odd and even numbers. • Add and subtract odd and even numbers. • Examine math vocabulary (add, subtract, sum, difference, addend). • Analyze a number.
	Online Practice	Add One Digit Numbers	<ul style="list-style-type: none"> • Add one digit numbers with sums up to 20.
	Online Practice	Subtract One Digit Numbers	<ul style="list-style-type: none"> • Subtract one digit numbers. • Subtract one digit numbers from two digit numbers up to 18.
	Online Practice	Even or Odd?	<ul style="list-style-type: none"> • Identify even and odd numbers. • Count objects and identify if groups are made of an even or odd number of objects.
	Online Practice	Even and Odd Sorting	<ul style="list-style-type: none"> • Sort even and odd numbers.

Module	Activity Type	Title	Objectives
	Online Practice	Choose the Number	<ul style="list-style-type: none"> Choose the correct even or odd number.
2	Lesson	Using Tens Facts and Doubles to Add and Subtract	<ul style="list-style-type: none"> Use the "tens facts", "doubles facts", and "turn around facts" to add and subtract within 20 Count manipulatives to group them in ones and tens Examine math vocabulary (eleven, twelve, thirteen-nineteen, equation, equal)
	Online Practice	Balanced Equations Addition and Subtraction	<ul style="list-style-type: none"> Balance one-digit addition equations. Balance addition and subtraction equations with digits up to 20.
	Online Practice	Add or Subtract	<ul style="list-style-type: none"> Find the missing number to balance the equation.
3	Lesson	Using a Problem Solving Strategy and Hundreds Chart	<ul style="list-style-type: none"> Use addition, subtraction, and a hundreds chart to add and subtract within 100. Examine a problem solving strategy. Write number words for groups of 10.
	Online Practice	Hundreds Chart	<ul style="list-style-type: none"> Use the hundreds chart to count and identify numbers.
4	Lesson	Using Bundles to Make Numbers to 1000	<ul style="list-style-type: none"> Bundle groups of tens to make hundreds up to nine hundreds. Examine math vocabulary. Write the numbers up to 1000 in 10 hundreds charts. Add doubles and doubles plus one.
	Online Practice	Adding Doubles	<ul style="list-style-type: none"> Add two numbers that are the same.

Module	Activity Type	Title	Objectives
	Online Practice	Word Number Math	<ul style="list-style-type: none"> Match the number word with the correct digits.
	Online Practice	Find the Number Word	<ul style="list-style-type: none"> Match the words to the digits.
5	Lesson	Skip Count to 1000 and Make Counting Estimations	<ul style="list-style-type: none"> Skip count by 10 to 1000 using the hundreds chart. Examine math vocabulary. Make a counting estimation.
	Online Practice	Skip Count by 5	<ul style="list-style-type: none"> Count by 5's.
	Online Practice	Skip Count by 2, 5, and 10	<ul style="list-style-type: none"> Count by 2's, 5's and 10's.
	Online Practice	Estimate How Many	<ul style="list-style-type: none"> Estimate numbers and sums to the nearest ten.
	Online Practice	Estimate the Sum	<ul style="list-style-type: none"> Estimate the sum of the addition sentence.
6	Lesson	Skip Count by 5 and Add and Subtract with the Inverse	<ul style="list-style-type: none"> Skip count by 5 to 1000 using the hundreds chart Make number patterns using skip counting Examine math vocabulary Turn addition facts around to make subtraction facts

Module	Activity Type	Title	Objectives
	Online Practice	Skip Counting and Counting Patterns	<ul style="list-style-type: none"> Count using patterns up to 1,000. Solve skip-counting puzzles.
7	Lesson	Compare Numbers with Symbols	<ul style="list-style-type: none"> Use the signs $<$, $>$, and $=$ to compare numbers to 100. Examine math vocabulary (greater than, less than, equal to).
	Online Practice	Compare Numbers	<ul style="list-style-type: none"> Compare numbers up to 100. Put numbers up to 100 in order. Order numbers up to 100 from least to greatest.
	Online Practice	Order Numbers	<ul style="list-style-type: none"> Order numbers from least to greatest or greatest to least.
	Online Practice	Compare Numbers on a Chart	<ul style="list-style-type: none"> Use charts to find the least or greatest number.
8	Lesson	Using Place Value Strategy to Add	<ul style="list-style-type: none"> Use the place value strategy to add within 100. Write numbers in expanded notation (decompose).

Module	Activity Type	Title	Objectives
	Online Practice	Convert From Expanded Form	<ul style="list-style-type: none"> Convert from expanded form to numerical form (up to 100's).
9	Lesson	Using Decompose Strategy to Add	<ul style="list-style-type: none"> Use the decomposing into tens strategy to add within 100.
	Online Practice	Add Multi-Digit Numbers	<ul style="list-style-type: none"> Add a two-digit number to a one-digit number.
10	Lesson	Using Commutative Property to Add	<ul style="list-style-type: none"> Use the commutative property to add within 100.
	Online Practice	Addition Equations	<ul style="list-style-type: none"> Decide whether an addition statement is true or false.
11	Lesson	Using the Place Value Strategy to Compare Three Digit Numbers	<ul style="list-style-type: none"> Use the place value strategy to compare numbers. Communicate the role of zero in numbers.
	Online Practice	Comparing Numbers	<ul style="list-style-type: none"> Compare numbers up to 1,000. Put numbers up to 1,000 in order. Order numbers up to 1,000 from least to greatest.
	Online Practice	Order Large Numbers	<ul style="list-style-type: none"> Order numbers from least to greatest.

Module	Activity Type	Title	Objectives
	Online Practice	Compare Larger Numbers	<ul style="list-style-type: none"> Use charts to find the least or greatest number.
	Online Practice	Complete Inequalities	<ul style="list-style-type: none"> Choose the correct sign.
12	Lesson	Expressing Tens and Adding Two Digit Numbers	<ul style="list-style-type: none"> Express tens as a three-digit number. Use the place value strategy to add four two-digit numbers.
	Online Practice	Add Two-Digit Numbers	<ul style="list-style-type: none"> Add three or more two-digit numbers.
13	Lesson	Using the Associative Property	<ul style="list-style-type: none"> Use the associative property to make equal equations.
	Online Practice	Write Addition Sentences to Describe Pictures	<ul style="list-style-type: none"> Write addition sentences with sums up to 20 to describe pictures.
14	Lesson	Using the Associative Property to Add and Using the Inverse to Subtract	<ul style="list-style-type: none"> Use the associative property to add two-digit numbers. Use the inverse to subtract.
	Online Practice	Associative Property	<ul style="list-style-type: none"> Balance addition equations using the associative property. Regroup tens and ones.
	Online Practice	Regrouping Tens and Ones	<ul style="list-style-type: none"> Regroup tens and ones.

Module	Activity Type	Title	Objectives
15	Lesson	Using Manipulatives to Add and Completing Two-Step Word Problems	<ul style="list-style-type: none"> • Use manipulatives and the hundreds chart to add and subtract within 1,000, • Complete two-step word problems.
	Online Practice	Two-Step Addition Word Problems	<ul style="list-style-type: none"> • Solve word problems involving adding three or more one-digit numbers. • Solve word problems involving adding three or more two-digit numbers.
	Online Practice	Multi-Step Word Problems	<ul style="list-style-type: none"> • Read and solve multi-step word problems.
16	Lesson	Describing Numbers with Arrays	<ul style="list-style-type: none"> • Identify numbers on a hundreds chart up to 25 that can be described with arrays,
	Online Practice	Addition in Arrays	<ul style="list-style-type: none"> • Identify repeated addition in arrays of sums up to 25. • Write addition sentences for arrays with sums up to 25.
	Online Practice	Completing Arrays	<ul style="list-style-type: none"> • Complete the addition sentence to describe the array.
	Online Practice	Use Arrays to Add	<ul style="list-style-type: none"> • Choose the addition sentence that best describes the array.
	Online Practice	More Adding with Arrays	<ul style="list-style-type: none"> • Complete the addition sentence to describe the array.

Module	Activity Type	Title	Objectives
17	Lesson	Using the Hundreds Chart to Add Tens and Repeating Addition	<ul style="list-style-type: none"> Use a hundreds chart to add and subtract. Repeat addition to express arrays.
	Online Practice	Add Hundreds	<ul style="list-style-type: none"> Add multiples of 100.
	Online Practice	Subtract Hundreds	<ul style="list-style-type: none"> Subtract multiples of 100.
18	Lesson	Make a Video to Explain Math Strategies	<ul style="list-style-type: none"> Mentally add and subtract 10 or 100 to any number up to 1,000. Explain addition and subtraction strategies verbally by making a teaching video.
	Online Practice	Missing Number	<ul style="list-style-type: none"> Use a number line to find the missing number.

Course Description:

During the second semester students will use place value to add and subtract within 1000. They will use place value to estimate and solve word problems to demonstrate skills. Students will measure and compare length and represent it on a number line. They will work with money and time to compare value. Students will collect data and represented on graphs to discuss it. Lastly, they will recognize common 2-dimensional and 3-dimensional shapes by specific characteristics.

Materials Needed:

32 Counters (pennies, buttons, beans)

Bag of beans

Yellow Highlighter

Module	Activity Type	Title	Objectives
19	Lesson	Examining Tools to Measure Length	<ul style="list-style-type: none"> Examine math vocabulary. Measure the length of an object in units. Examine measurement tools.
	Online Practice	Measuring Tools	<ul style="list-style-type: none"> Determine which measuring tool is appropriate to a given situation.
20	Lesson	Measuring Length: Inches and Centimeters	<ul style="list-style-type: none"> Measure the length of an object in inches and centimeters.
	Online Practice	Measure Using an Inch Ruler	<ul style="list-style-type: none"> Use an inch ruler to measure objects.
	Online Practice	Measure Using a Centimeter Ruler	<ul style="list-style-type: none"> Use a centimeter ruler to measure objects.

Module	Activity Type	Title	Objectives
21	Lesson	Measuring Length: Feet and Meters	<ul style="list-style-type: none">• Measure the length of an object in feet and meters.• Use measurement vocabulary when solving problems.
	Online Practice	Hundreds Chart	<ul style="list-style-type: none">• Count and identify numbers using the hundreds chart.
22	Lesson	Decisions about Units of Measure	<ul style="list-style-type: none">• Make a decision about when to use specific units.
	Online Practice	Customary Unit Measurements	<ul style="list-style-type: none">• Determine which customary unit of length is appropriate for a given situation.
	Online Practice	Metric Unit Measurements	<ul style="list-style-type: none">• Determine which metric unit of length is appropriate for a given situation.
23	Lesson	Estimating Length	<ul style="list-style-type: none">• Estimate length in centimeters, inches, feet, and meters•
	Online Practice	Fact Families	<ul style="list-style-type: none">• Identify facts within a fact family.
24	Lesson	Comparing Length	<ul style="list-style-type: none">• Measure to determine how much longer one object is than another.
	Online Practice	Regrouping	<ul style="list-style-type: none">• Use regrouping to subtract two two-digit numbers.

Module	Activity Type	Title	Objectives
25	Lesson	Solving Word Problems about Length	<ul style="list-style-type: none">Solve word problems with addition and subtraction to 100 involving length.
	Online Practice	Customary Units of Length: Word Problems	<ul style="list-style-type: none">Solve word problems involving customary units of length.
	Online Practice	Metric Units of Length: Word Problems	<ul style="list-style-type: none">Solve word problems involving metric units of length.
26	Lesson	Expressing Length with Addition and a Number Line	<ul style="list-style-type: none">Use a number line to demonstrate addition with length.
	Online Practice	Number Lines- Up to 100	<ul style="list-style-type: none">Use number lines up to 100.
	Online Practice	Guess the Number	<ul style="list-style-type: none">Use counting skills to identify a number.
27	Lesson	Repeating Subtraction to Divide	<ul style="list-style-type: none">Use a number line to demonstrate subtraction with length.Use repeated subtraction to divide.
	Online Practice	Add and Subtract Numbers Up to 100	<ul style="list-style-type: none">Add and subtract using numbers up to 100.

Module	Activity Type	Title	Objectives
	Online Practice	Divisors and Quotients Up to 5	<ul style="list-style-type: none"> Use repeated addition to solve division problems with divisors and quotients up to 5.
28	Lesson	Expressing Time in Minutes	<ul style="list-style-type: none"> Make a clock. Move the long hand to tell time to the nearest five minutes.
	Online Practice	Hour and Half Hour	<ul style="list-style-type: none"> Read a clock to the nearest half-hour.
	Online Practice	Telling Time	<ul style="list-style-type: none"> Read a clock.
29	Lesson	Money Identification and Symbols	<ul style="list-style-type: none"> Identify pennies, dimes, nickels, quarters, and dollar bills.
	Online Practice	Coin Amounts	<ul style="list-style-type: none"> Find the name and value of coins.
	Online Practice	Values of All Coins	<ul style="list-style-type: none"> Identify and value the common coins.
30	Lesson	Adding and Subtracting Money	<ul style="list-style-type: none"> Add and subtract pennies, dimes, nickels, quarters, and dollar bills. Examine register tape from shopping trips. Make and solve word problems using money.
	Online Practice	Add Money – Up to \$1	<ul style="list-style-type: none"> Solve addition problems involving money up to \$1.

Module	Activity Type	Title	Objectives
	Online Practice	Subtract Money – Up to \$1	<ul style="list-style-type: none"> Solve subtraction problems involving money up to \$1.
	Online Practice	Add and Subtract Money	<ul style="list-style-type: none"> Solve addition and subtraction problems involving money up to \$1.
31	Lesson	Using Data to Make Line Plots	<ul style="list-style-type: none"> Make a line plot with measurement data.
	Online Practice	Line Plots	<ul style="list-style-type: none"> Interpret data on a line plot.
	Online Practice	Make Line Plots	<ul style="list-style-type: none"> Create a line plot using data.
32	Lesson	Using Bar Graphs to Solve Word Problems	<ul style="list-style-type: none"> Make a picture graph and bar graph with data. Solve simple problem with the graphs.
	Online Practice	Bar Graphs	<ul style="list-style-type: none"> Interpret data on a bar graph.
	Online Practice	Read Bar Graphs	<ul style="list-style-type: none"> Read bar graphs to answer questions.
33	Lesson	Identifying Shape Attributes	<ul style="list-style-type: none"> Identify and draw shapes with specific attributes.

Module	Activity Type	Title	Objectives
	Online Practice	Count Shapes in a Venn Diagram	<ul style="list-style-type: none"> Count shapes on a Venn diagram.
	Online Practice	Sort Shapes into a Venn Diagram	<ul style="list-style-type: none"> Classify and sort shapes using a Venn diagram.
34	Lesson	Making Fractions	<ul style="list-style-type: none"> Partition a rectangle into equal parts.
	Online Practice	Equal Parts	<ul style="list-style-type: none"> Identify when a shape is divided into equal parts.
35	Lesson	Folding Paper to Make Fractions	<ul style="list-style-type: none"> Fold paper to partition circles and rectangles and describe the folds using halves, thirds, and fourths. Examine math vocabulary (half, third, fourth, quarter).
	Online Practice	Fraction to Whole Numbers	<ul style="list-style-type: none"> Identify fractions to describe a divided shape.
	Online Practice	Halves, Thirds, and Fourths	<ul style="list-style-type: none"> Identify when an object is divided into halves, thirds, and fourths.
36	Lesson	Solving Word Problems about Math Concepts	<ul style="list-style-type: none"> Solve word problems involving time, money, and folding shapes.
	Online Practice	Elapsed Time	<ul style="list-style-type: none"> Solve problems involving elapsed time.

Module	Activity Type	Title	Objectives
	Online Practice	Money Word Problems	<ul style="list-style-type: none">• Read and solve word problems involving money.
	Online Practice	Fraction Word Problems	<ul style="list-style-type: none">• Solve word problems involving fractions.