

K-2 Math

Adding within Twenty

Lesson Objective: The student will add numbers to sums of 20 using different strategies.

Subobjective 1: The student will use the counting on strategy to add to 20.

Subobjective 2: The student will use the making 10 strategy to add to 20.

Subobjective 3: The student will be able to add doubles plus one to add to 20.

Addition and Subtraction

Lesson Objective: The student will use physical, pictorial, and symbolic models to demonstrate various meanings of addition and subtraction.

Subobjective 1: The student will use physical, pictorial, and symbolic models to solve addition problems.

Subobjective 2: The student will use physical, pictorial, and symbolic models to solve subtraction problems.

Addition and Subtraction Equations

Lesson Objective: The student will be able to determine the unknown whole number in an addition or subtraction equation.

Subobjective 1: The student will learn about fact families and how equations can be inverse.

Subobjective 2: The student will identify the unknown result in an addition and a subtraction equation.

Subobjective 3: The student will utilize strategies for finding a missing number.

Addition and Subtraction Facts Practice

Lesson Objective: The student will practice addition and subtraction facts to 20.

Subobjective 1: The student will solve vertical and horizontal problems.

Subobjective 2: The student will self-check his/her answer.

Addition Problems Using Properties of Operations and Place Value

Lesson Objective: The student will solve addition problems using place value and properties of operations.

Subobjective 1: The student will review the concept of place value.

Subobjective 2: The student will solve addition problems using the expanded form of place value.

Subobjective 3: The student will review properties of operations.

Subobjective 4: The student will solve addition problems using inverse operations.

Addition to Ten

Lesson Objective: The student will calculate the number that makes 10 when added to a given number from 1-9.

Subobjective 1: The student will record sum equations using drawings and/or numbers.

Associative Property of Addition

Lesson Objective: The student will demonstrate an understanding of the Associative Property of Addition.

Subobjective 1: The student will verbally define the Associative Property of Addition.

Subobjective 2: The student will identify and represent the Associative Property of Addition using numbers and/or pictures.

Calendar

Lesson Objective: The student will be able to recognize and use the calendar to establish weeks, months, and the calendar year.

Subobjective 1: The student will identify the number of days in a week.

Subobjective 2: The student will identify the number of weeks in a month.

Subobjective 3: The student will sequence the months in a year.

Comparing Attributes

Lesson Objective: The student will compare two objects with a measurable attribute in common to see which has more or less of that attribute and describe the difference.

Subobjective 1: The student will compare the heights of two children and describe one as taller or shorter.

Comparing Numbers

Lesson Objective: The student will compare two numbers less than twelve.

Subobjective 1: The student will compare two numbers or two groups of numbers using the terms and symbols for "greater than," "less than" and "equal to."

Comparing Numbers Less than 100

Lesson Objective: The student will be able to compare two numbers less than 100, using the terms, "greater than," "less than" and "equal to."

Comparing Numbers to 100 with Symbols

Lesson Objective: The student will compare two numbers less than 100 using $<$, $>$ or $=$.

Subobjective 1: The student will explain what $<$, $>$ and $=$ mean.

Subobjective 2: The student will express the relationship between two numbers as $<$, $>$ or $=$.

Composing and Decomposing Numbers Through 19

Lesson Objective: The student will compose and decompose numbers 1-19.

Subobjective 1: The student will decompose numbers less than or equal to 10 into pairs.

Subobjective 2: The student will compose and decompose numbers 11-15 into tens and ones.

Subobjective 3: The student will compose and decompose numbers 15 -19 into tens and ones.

Composing Shapes

Lesson Objective: The student will compose simple shapes from larger shapes.

Subobjective 1: The student will join two triangles to make a rectangle.

Subobjective 2: The student will join two squares to make a rectangle.

Subobjective 3: The student will join two triangles to make a diamond.

Congruent Symmetry

Lesson Objective: The student will identify and create symmetrical and congruent objects.

Subobjective 1: The student will identify and create symmetrical objects.

Subobjective 2: The student will identify and create congruent objects.

Greater Than, Less Than, or Equal To

Lesson Objective: The student will demonstrate an understanding of the math concepts of greater than, less than, and equal to by identifying objects in a group using matching and counting strategies.

Measurable Attributes

Lesson Objective: The student will describe measurable attributes of objects, such as length or weight.

Subobjective 1: The student will describe several measurable attributes of a single object.

Measuring Length in Units

Lesson Objective: The student will measure lengths indirectly and by iterating length units.

Subobjective 1: The student will express the length of an object as a whole number of length units by laying multiple copies of a shorter object (the length unit) end to end.

Subobjective 2: The student will explain that the length of an object can be measured by same-size length units that span the object's length with no gaps or overlaps.

Numerals 0-20

Lesson Objective: The student will name and identify numerals 0-20

Ordering and Comparing Lengths

Lesson Objective: The student will order objects and compare objects by length.

Subobjective 1: The student will order three objects by length.

Subobjective 2: The student will compare the lengths of two objects by using a third object.

Patterns

Lesson Objective: The student will find patterns in the environment and extend AB, ABB, and ABC patterns.

Subobjective 1: The student will correctly identify AB, ABB and ABC patterns.

Subobjective 2: The student will successfully create their own AB, ABB and ABC patterns.

Subobjective 3: The student will extend AB, ABB and ABC patterns.

Subobjective 4: The student will sort a group of objects by one or two attributes.

Subobjective 5: The student will utilize patterns to count more efficiently.

Place Value to Hundreds

Lesson Objective: The student will show understanding of place value including hundreds, tens and ones using models.

Subobjective 1: The student will identify the ones place.

Subobjective 2: The student will identify the tens place.

Subobjective 3: The student will identify the hundreds place.

Subobjective 4: The student will show place value understanding by reading and creating models to the hundredths place.

Probability

Lesson Objective: The student will conduct simple probability experiments, describe the results, and make accurate predictions.

Subtraction Word Problems

Lesson Objective: The student will learn how to represent and solve problems involving subtraction.

Subobjective 1: The student will solve word problems to 20 using subtraction.

Subobjective 2: The student will identify the unknown result in a subtraction equation.

Subobjective 3: The student will identify the missing number within a subtraction equation.

Subobjective 4: The student will identify the missing number that starts a subtraction equation.

Telling Time

Lesson Objective: The student will correctly tell and write time in hours and half-hours.

Subobjective 1: The student will correctly tell time to the nearest hour using an analog clock.

Subobjective 2: The student will correctly tell time to the nearest hour using a digital clock.

Subobjective 3: The student will correctly tell time to the nearest half-hour using an analog clock.

Subobjective 4: The student will correctly tell time to the nearest half-hour using a digital clock.

Subobjective 5: The student will match analog time with digital time.

Two-Dimensional and Three-Dimensional Shapes

Lesson Objective: The student will learn about two-dimensional and three-dimensional shapes.

Subobjective 1: The student will be able to identify 2-D and 3-D shapes.

Subobjective 2: The student will be able to compare and contrast 2-D shapes.

Subobjective 3: The student will be able to identify 3-D shapes in real life.

Two-Dimensional Shapes

Lesson Objective: The student will identify, locate, draw, and describe two-dimensional shapes.

Subobjective 1: The student will identify the shapes: square, rectangle, triangle, and circle.

Subobjective 2: The student will sort the shapes: square, rectangle, triangle, and circle.

Subobjective 3: The student will describe each shape's physical characteristics (number of sides, corners, and vertices).

Subobjective 4: The student will draw the shapes.

Subobjective 5: The student will move or turn a shape to illustrate it is still a square, triangle, etc.

Subobjective 6: The student will locate the presence of two-dimensional figures within three-dimensional objects in the environment.

Subobjective 7: The student will construct shapes from manipulatives.

Value of Paper Money

Lesson Objective: The student will identify the value of paper money in the following denominations: 1s, 5s, 10s, 20s, 50s, and 100s.

Subobjective 1: The student will connect the paper money denominations to the president who is portrayed on them.

Subobjective 2: The student will find total values of paper money.

Writing Numerals 0-15

Lesson Objective: The student will write numerals 0-15.

Subobjective 1: The student will represent a number of objects with a written numeral of 0-15.

Writing Numerals 0-20

Lesson Objective: The student will write numerals 0-20.

Subobjective 1: The student will represent a number of objects with a written numeral of 0-20.