



Math Curriculum Common Core Grade – 2

Course Contents

Operations and Algebraic Thinking

Solve One- and Two-Step Word Problems Using Addition and Subtraction

Solve one- and two-step word problems involving addition and subtraction within 100, using drawings and equations to represent unknowns in various positions.

Practice using addition and subtraction strategies to solve problems related to adding to, taking from, putting together, and comparing.

Fluently add and subtract within 20 using mental strategies.

Practice recalling from memory all sums of two one-digit numbers by the end of Grade 2.

Identify Odd and Even Numbers Using Groups of Objects

Determine whether a group of objects (up to 20) has an odd or even number of members by pairing objects or counting by 2s.

Write an equation to express an even number as a sum of two equal addends.

Use Addition to Find the Total Number of Objects in Rectangular Arrays

Arrange objects in rectangular arrays with up to 5 rows and up to 5 columns.

Write an equation to express the total as a sum of equal addends.

Number and Operations in Base Ten

Understand the Value of Hundreds, Tens, and Ones in Three-Digit Numbers

Understand that the digits in a three-digit number represent hundreds, tens, and ones (e.g., $706 = 7$ hundreds, 0 tens, 6 ones).

Recognize special cases such as 100 being a bundle of ten tens, and the numbers 100–900 referring to multiples of hundreds with 0 tens and 0 ones.

Skip-Counting within 1000

Count within 1000 by skip-counting by 5s, 10s, and 100s.

Read and Write Numbers to 1000

Read and write numbers to 1000 using base-ten numerals, number names, and expanded form.

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Compare Three-Digit Numbers

Compare two three-digit numbers based on the value of the hundreds, tens, and ones digits, using $>$, $=$, and $<$ symbols to record comparisons.

Add and Subtract Within 100 Using Place Value Strategies

Fluently add and subtract within 100 using strategies based on place value, properties of operations, and the relationship between addition and subtraction.

Add Up to Four Two-Digit Numbers

Use strategies based on place value and properties of operations to add up to four two-digit numbers.

Add and Subtract Within 1000 Using Place Value Strategies

Add and subtract within 1000 using place value, properties of operations, and concrete models or drawings, relating strategies to written methods.

Understand Place Value in Addition and Subtraction of Three-Digit Numbers

Understand that in adding or subtracting three-digit numbers, hundreds are added to hundreds, tens to tens, and ones to ones, with composition or decomposition of tens or hundreds when necessary.

Mentally Add or Subtract 10 or 100

Mentally add 10 or 100 to a given number between 100–900 and mentally subtract 10 or 100 from a given number between 100–900.

Explain Addition and Subtraction Strategies

Explain why addition and subtraction strategies work, using place value and properties of operations.

Measurement and Data

Measuring Length with Appropriate Tools

Measure the length of an object by selecting and using tools like rulers, yardsticks, meter sticks, and measuring tapes.

Comparing Measurements with Different Units

Measure the length of an object twice using different units of measurement, and describe how the two measurements relate to the size of the units chosen.

Estimating Lengths in Standard Units

Estimate lengths using units such as inches, feet, centimeters, and meters.

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Comparing Lengths of Objects

Measure to determine how much longer one object is than another, expressing the difference in terms of a standard length unit.

Solve Word Problems Involving Length Using Addition and Subtraction

Use addition and subtraction within 100 to solve word problems involving lengths given in the same units, representing the problem with drawings and equations.

Represent Whole Numbers as Lengths on a Number Line

Represent whole numbers as lengths from 0 on a number line diagram with equally spaced points corresponding to numbers 0, 1, 2, etc.

Represent Whole-Number Sums and Differences on a Number Line

Represent whole-number sums and differences within 100 on a number line diagram.

Tell and Write Time from Clocks

Tell and write time from analog and digital clocks to the nearest five minutes, using a.m. and p.m.

Solve Word Problems Involving Money

Solve word problems involving dollar bills, quarters, dimes, nickels, and pennies, using \$ and ¢ symbols appropriately.

Apply Time and Money Concepts

Integrate understanding of telling time and solving money problems through practical applications and word problems.

Generate Measurement Data and Create a Line Plot

Generate measurement data by measuring lengths of several objects to the nearest whole unit and display the measurements on a line plot marked in whole-number units.

Draw Picture Graphs

Draw a picture graph to represent a data set with up to four categories and understand how to interpret the data presented.

Draw Bar Graphs and Solve Problems

Create a bar graph (with a single-unit scale) to represent the same data set, and solve simple put-together, take-apart, and compare problems using the information presented in the bar graph.

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Geometry

Recognize and Draw Shapes with Specific Attributes

Recognize and draw shapes with specified attributes, such as the number of angles or equal faces, including triangles, quadrilaterals, pentagons, hexagons, and cubes.

Partition Rectangles into Rows and Columns

Partition a rectangle into rows and columns of the same-size squares and count to find the total number of squares.

Partition Shapes into Equal Shares

Partition circles and rectangles into two, three, or four equal shares, describing the shares as halves, thirds, etc., and understand that equal shares of identical wholes need not have the same shape.

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