



01

Maths - USA

COMMON CORE - GRADE 1

Experience Level: **ELEMENTARY**Number of Classes: **VARIABLE**Age Range: **5 - 6 YEARS**

01

Operations and Algebraic Thinking

- Represent and solve problems involving addition and subtraction:
 - Use addition and subtraction within 20 to solve word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using objects, drawings, and equations with a symbol for the unknown number to represent the problem.
- Solve word problems that call for addition of three whole numbers whose sum is less than or equal to 20, e.g., by using objects, drawings, and equations with a symbol for the unknown number to represent the problem.



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02

01

Operations and Algebraic Thinking (Contd.)

- Understand and apply properties of operations and the relationship between addition and subtraction.
 - Apply properties of operations as strategies to add and subtract..
- Understand subtraction as an unknown-addend problem.
- Add and subtract within 20.
 - Relate counting to addition and subtraction (e.g., by counting on 2 to add 2).
 - Add and subtract within 20, demonstrating fluency for addition and subtraction within 10. Use strategies such as counting on; making ten (e.g., $8 + 6 = 8 + 2 + 4 = 10 + 4 = 14$); decomposing a number leading to a ten (e.g., $13 - 4 = 13 - 3 - 1 = 10 - 1 = 9$); using the relationship between addition and subtraction (e.g., knowing that $8 + 4 = 12$, one knows $12 - 8 = 4$); and creating equivalent but easier or known sums (e.g., adding $6 + 7$ by creating the known equivalent $6 + 6 + 1 = 12 + 1 = 13$).
- Work with addition and subtraction equations.
 - Understand the meaning of the equal sign, and determine if equations involving addition and subtraction are true or false.
 - Determine the unknown whole number in an addition or subtraction equation relating three whole numbers.



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Number and Operations in Base Ten

- Extend the counting sequence.
 - Count to 120, starting at any number less than 120. In this range, read and write numerals and represent a number of objects with a written numeral.
- Understand place value.
- Use place value understanding and properties of operations to add and subtract.
- Add within 100, including adding a two-digit number and a one-digit number, and adding a two-digit number and a multiple of 10.
- Given a two-digit number, mentally find 10 more or 10 less than the number, without having to count; explain the reasoning used.
- Subtract multiples of 10 in the range 10-90 from multiples of 10 in the range 10-90 (positive or zero differences).

03

Measurement and Data

- Measure lengths indirectly and by iterating length units.
- Tell and write time.
- Represent and interpret data.

04

Geometry

- Reason with shapes and their attributes.
 - Distinguish between defining attributes (e.g., triangles are closed and three-sided) versus non-defining attributes (e.g., color, orientation, overall size); build and draw shapes to possess defining attributes.



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04

Geometry (Contd.)

- Compose two-dimensional shapes (rectangles, squares, trapezoids, triangles, half-circles, and quarter-circles) or three-dimensional shapes (cubes, right rectangular prisms, right circular cones, and right circular cylinders) to create a composite shape, and compose new shapes from the composite shape.
- Partition circles and rectangles into two and four equal shares, describe the shares using the words halves, fourths, and quarters, and use the phrases half of, fourth of, and quarter of. Describe the whole as two of, or four of the shares. Understand for these examples that decomposing into more equal shares creates smaller shares.



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