

Essential Skill: **Add and subtract within 20.**

What it looks like:

1. Fluently add and subtract within 20 using mental strategies.
2. Know from memory all sums of two one-digit numbers.

Example

**Essential Skill: Understand place value to 1000.**

**What it looks like:**

1. Understand that the three digits of a three-digit number represent amounts of hundreds, tens, and ones; e.g., 706 equals 7 hundreds, 0 tens, and 6 ones. Understand the following as special cases:
2. 100 can be thought of as a bundle of ten tens — called a “hundred.”
3. The numbers 100, 200, 300, 400, 500, 600, 700, 800, 900 refer to one, two, three, four, five, six, seven, eight, or nine hundreds (and 0 tens and 0 ones).
4. Count within 1000; skip-count by 2s, 5s, 10s, and 100s.
5. Read and write numbers to 1000 using base-ten numerals, number names, and expanded form.
6. Compare two three-digit numbers based on meanings of the hundreds, tens, and ones digits, using  $>$ ,  $=$ , and  $<$  symbols to record the results of comparisons.

**Example**

**Essential Skill: Use place value understanding and properties of operations to add and subtract.**

What it looks like:

1. Fluently add and subtract within 100 using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction.
2. Add up to four two-digit numbers using strategies based on place value and properties of operations.
3. Add and subtract within 1000, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method. Understand that in adding or subtracting three-digit numbers, one adds or subtracts hundreds and hundreds, tens and tens, ones and ones; and sometimes it is necessary to compose or decompose tens or hundreds. Use estimation strategies in computation and problem solving with numbers up to 1000.
4. Make reasonable estimates when adding or subtracting.
5. Mentally add 10 or 100 to a given number 100–900, and mentally subtract 10 or 100 from a given number 100–900.
6. Explain why addition and subtraction strategies work, using place value and the properties of operations.

Example

Essential Skill: **Represent and solve problems involving addition and subtraction.**

What it looks like:

1. Use addition and subtraction within 100 to solve one- and two-step word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.

Example

**Essential Skill: Work with equal groups of objects to gain foundations for multiplication.**

**What it looks like:**

1. Determine whether a group of objects (up to 20) has an odd or even number of members, e.g., by pairing objects or counting them by 2s; write an equation to express an even number as a sum of two equal addends.
2. Use addition to find the total number of objects arranged 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. *Use repeated addition and counting by multiples to demonstrate multiplication. Use repeated subtraction and equal group sharing to demonstrate division.*

**Example**

Essential Skill: **Represent and interpret data (up to 4 categories).**

What it looks like:

1. Generate measurement data by measuring lengths of several objects to the nearest whole unit, or by making repeated measurements of the same object. Show the measurements by making a line plot, where the horizontal scale is marked off in whole-number units.
2. Draw a picture graph and a bar graph (with single-unit scale) to represent a data set with up to four categories.

Example

**Essential Skill: Measure and estimate lengths in standard units.**

**What it looks like:**

1. Measure the length of an object by selecting and using appropriate tools such as rulers, yardsticks, meter sticks, and measuring tapes.
2. Measure the length of an object twice, using length units of different lengths for the two measurements; describe how the two measurements relate to the size of the unit chosen.
3. Estimate lengths using units of inches, feet, centimeters, and meters.
4. Verify reasonableness of the estimate when working with measurements (e.g., closest inch).
5. Measure to determine how much longer one object is than another, expressing the length difference in terms of a standard length unit.

**Example**

**Essential Skill: Relate addition and subtraction to length.**

**What it looks like:**

1. Use addition and subtraction within 100 to solve word problems involving lengths that are given in the same units, e.g., by using drawings (such as drawings of rulers) and equations with a symbol for the unknown number to represent the problem.
2. Represent whole numbers as lengths from 0 on a number line diagram with equally spaced points corresponding to the numbers 0, 1, 2, ..., and represent whole-number sums and differences within 100 on a number line diagram.

**Example**

Essential Skill: **Work with money.**

What it looks like:

1. Solve word problems involving ***combinations of*** dollar bills, quarters, dimes, nickels, and pennies, using \$ and ¢ symbols appropriately. *Example: If you have 2 dimes and 3 pennies, how many cents do you have?*

Example

Essential Skill: **Work with time.**

What it looks like:

1. Tell and write time from analog and digital clocks to the nearest five minutes, using a.m. and p.m. *Know relationships of time (e.g., minutes in an hour, days in a month, weeks in a year).*

Example

**Essential Skill: Reason with shapes and their attributes.**

**What it looks like:**

1. Recognize and draw shapes having specified attributes, such as a given number of angles or a given number of equal faces.
2. Identify triangles, quadrilaterals, pentagons, hexagons, and cubes.
3. Partition a rectangle into rows and columns of same-size squares and count to find the total number of them.
4. Partition circles and rectangles into two, three, or four equal shares, describe the shares using the *halves*, *thirds*, *half of*, *a third of*, etc., and describe the whole as two halves, three thirds, four fourths. Recognize that equal shares of identical wholes need not have the same shape.

**Example**