

Course/Grade Level: Grade One Math Curriculum

Focus: Students will manipulate a variety of materials, solve basic addition facts within sums to ten and the corresponding subtraction facts, and create graphs.

M.1.1 Students will demonstrate number sense for whole numbers 0-100. Students will...

- M.1.1.1 recognize, explain, and represent whole numbers from 0-100 using concrete objects and models. (1.1.1.K1, 1.1.2.K2, 1.2.4.K1a)
- M.1.1.2 plot whole numbers from 0-100 on segments of a number line. (1.2.3.K1)
- M.1.1.3 ▲ read and write whole numbers 0-100 in numerical form. (1.1.2.K1)
- M.1.1.4 ▲ solve real-world problems using concrete objects to compare and order, and find reasonableness of numbers from 0-100. e.g., when asked if 40 dictionaries will fit inside the student's desk (1.1.1.A1, 1.1.1.K2a, 1.1.1.A2; 1.1.3.K1, 1.1.3.A1, 1.1.3.K2)
- M.1.1.5 ▲ identify the place value (ones, tens, and hundreds) of the digits in whole numbers from 0-100. (1.1.2.K5)
- M.1.1.6 identify and use ordinal numbers first through tenth. (1.1.1.K4)
- M.1.1.7 identify any whole number from 0-30 as even or odd. (1.1.2.K6)
- M.1.1.8 compare two whole numbers from 0-100 using only the terms: is equal to, is less than, is greater than. (1.2.2.K3)

M.1.2 Students will demonstrate number sense for money using concrete objects in a variety of situations. Students will...

- M.1.2.1 identify the coins (penny, nickel, dime, and quarter) and state the value of each coin. (1.1.1.K5)
- M.1.2.2 identify the currency \$1, \$5, \$10. (1.1.1.K5)
- M.1.2.3 ▲ recognize and count a like group of coins (penny, nickel, dime, quarter). (1.1.1.K6)

M.1.3 Students will identify and compare simple fractions using concrete objects. Students will...

- M.1.3.1 recognize a whole, a half, and a fourth and represent equal parts of a whole using concrete objects, pictures, or pattern blocks. (1.1.1.K3)
- M.1.3.2 compare and order fractions with like denominators (halves and fourths) using concrete models. (1.1.1.K2b)

M.1.4 Students will model, perform, and explain computation with whole numbers using concrete models. Students will...

- M.1.4.1 ▲N state and use with efficiency and accuracy basic addition facts with sums from 0 through 10 and corresponding subtraction facts. (1.1.4.K2, 1.2.2.K2)
- M.1.4.2 read and write horizontally and vertically the same addition expression. (1.1.4.K8)
- M.1.4.3 show or explain the concept that addition and subtraction are inverse operations using concrete models. (1.1.4.K7)
- M.1.4.4 perform computational procedures with addition of whole numbers with sums through 99 and subtraction of two-digit whole numbers **without regrouping** using concrete objects in real-world situations. (1.1.4.K6, 1.1.4.A1, 1.2.2.A1, 1.2.2.A2)

M.1.5 Students will recognize, develop, and explain relationships in patterns using concrete objects in a variety of situations. Students will...

- M.1.5.1 ▲ skip counts by 5's and 10's through 100 and 2's through 30 using concrete objects. (1.1.4.K3, 1.2.1.A3)
- M.1.5.2 recognize, identify, and generate repeating patterns for the AB, ABC, and AAB patterns and growing patterns that add 1, 2, 5, or 10 using concrete items. (1.2.1.K1, 1.2.1.K2, 1.2.1.A1, 1.2.1.A2, 1.2.1.K4)

M.1.6 Students will recognize geometric shapes and describe their attributes using concrete objects in a variety of situations. Students will ...

- M.1.6.1 ▲ identify and draw circles, squares, rectangles, triangles, and ellipses (ovals). (1.3.1.K1, 1.3.1.K2)
- M.1.6.2 recognize cubes, rectangular prisms, cylinders, cones, and spheres.

M.1.7 Students will estimate and measure using standard and non-standard units of measure with concrete objects in a variety of situations.

Students will ...

- M.1.7.1 select appropriate measuring tools for length, weight, volume, and temperature for a given situation. (1.3.2.K4)
- M.1.7.2 use whole number approximations (estimations) for length and weight using non-standard units of measure. e.g., the width of the desk is about 5 erasers long (1.3.2.K1, 1.3.2.A3)
- M.1.7.3 measure length and weight to the nearest whole unit using nonstandard units. (1.3.2.K5)
- M.1.7.4 ▲ read and tell time to the hour and half hour using analog and digital clocks. (1.3.2.K3)
- M.1.7.5 state the number of months in a year and recite the months in order.

M.1.8 Students will use concepts and procedures of data analysis in a variety of situations. Students will ...

- M.1.8.1 recognize whether an outcome of a simple event in an experiment is impossible, possible, or certain. (1.4.1.K1)
- M.1.8.2 recognize whether a simple event in an experiment including the use of concrete objects can have more than one outcome. (1.4.1.K2)
- M.1.8.3 collect, record, display, and interpret data in a clear organized manner including a title, labels, and whole number intervals using these data displays: graphs, frequency tables (tally marks), bar graphs, and Venn diagrams. (1.4.2.K1, 1.4.2.K2, 1.4.2.K5, 1.4.2.A2)
- M.1.8.4 find the concept of mode (most) after sorting by one attribute. (1.4.2.K4)
- M.1.8.5 identify the minimum and maximum values in a data set. (1.4.2.K3)