

Second Grade Math Standards and Benchmarks

Standard 1: Acquire and use powerful, flexible and widely applicable skills in all areas of mathematics.

- M.02.01.01 Engage in tasks for which the solution method is not known in advance.
- M.02.01.02 Reason in a wide range of mathematical and applied settings.
- M.02.01.03 Share ideas and clarify understanding to learn mathematics and to communicate mathematically.
- M.02.01.04 Connect mathematical ideas to deepen understanding.
- M.02.01.05 Represent mathematical processes and products in multiple ways.

Standard 2: Understand and apply basic and advanced properties of the concepts of numbers.

- M.02.02.01 Count numbers 0-50 by 2's. Count numbers 0-100 by 1's, 5's, 10's.
- M.02.02.02 Understand a variety of representations of whole numbers 0 to 1000 and the relationship among them (e.g., relating written numerals to corresponding word, relating objects in sets to the corresponding numeral).
- M.02.02.03 Read and write numerals 0-200 (e.g., standard and expanded form).
- M.02.02.04 Use variety of methods to compare and order whole numbers (e.g., ordinal numbers, "first" through "twentieth", symbols [$<$, $>$, $=$] and language, such as "between", "less than", "greater than" or "equal to").
- M.02.02.05 Understand physical, verbal and symbolic representations of fractions (e.g., halves, fourths, thirds, eighths).
- M.02.02.06 Understand the concept of place value for whole numbers through hundreds place (e.g., ones, tens and hundreds).

Standard 3: Use basic and advanced procedures while performing in the processes of computation.

- M.02.03.01 Know addition and subtraction facts through at least 18.
- M.02.03.02 Fluently compose and decompose two- and three-digit numbers.
- M.02.03.03 Solve two-digit addition and subtraction with and without regrouping.
- M.02.03.04 Understand that addition and subtraction are inverse operations.
- M.02.03.05 Determine if a solution to a problem is reasonable. Estimate an answer prior to computing ($17 + 22$ is about 40).

Standard 4: Understand and apply basic and advanced properties of the concepts of measurement.

- M.02.04.01 Understand time by 5-minute intervals.
- M.02.04.02 Measure and compare length, height and weight.

Standard 5: Understand and apply basic and advanced properties of the concepts of geometry.

- M.02.05.01 Identify, name, sort and describe properties of and similarities and differences among three-dimensional figures (e.g., spheres, cubes, rectangular prisms, cylinders, pyramids and cones) and basic geometric terms (e.g., sides, edges, corners and symmetry) associated with these figures.
- M.02.05.03 Describe and represent shapes from different perspectives.

Standard 6: Understand and apply basic and advanced concepts of statistics and data analysis.

- M.02.06.01 Collect and organize data on frequency tables, line plots, picture graphs and charts.
- M.02.06.02 Read and interpret tables, graphs and charts.
- M.02.06.03 Compare a single type of data using different graphs.

Standard 7: Understand and apply basic and advanced concepts of probability.

- M.02.07.01 Understand the basic concepts of likely and unlikely outcomes.

Standard 8: Understand and apply basic and advanced properties of functions and algebra.

- M.02.08.01 Understand and extend a wide variety of patterns.