

Grade 2 - Maths Overview



Whole Numbers

- Use place-value models to represent numbers to 1000
- Read, write in words, standard and expanded notation, identify place values of digits and compare and order numbers within 1000
- Describe and extend regular number patterns within 1000
- Use symbols to compare numbers within 1000

Addition and Subtraction of Whole Numbers

- Understand the meaning of addition (missing whole, putting together, counting on, and simple addition stories)
- Understand the meaning of subtraction (missing part, taking away, counting back, and simple subtraction stories)
- Use inverse relationship between addition and subtraction
- Compare numbers by using subtraction to find the difference
- Add/Subtract numbers within 1000

Multiplication and Division of Whole Numbers

- Use repeated addition and arrays to solve multiplication problems within 40
- Use sharing and grouping to divide
- Use repeated subtraction to divide and find the remainder
- Relate division to multiplication
- Recognize and extend regular linear patterns
- Multiply/divide by 2s, 3s, 4s, 5s and 10s
- Learn multiplication/division facts for 2s, 3s, 4s, 5s and 10s

Word Problems

- The four operations can be used to solve simple one-step word problems

Money

- Count combinations of bills and coins to \$10.00
- Use decimal notation for money

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- Use decimal notation to add and subtract money within \$10.00

Mental Math Strategies

- Use the commutative and associative properties to perform mental calculations and check results
- Add/Subtract numbers within 100
- Add/Subtract 1s, 10s, or 100s to numbers within 1000
- Subtract from 100
- Add/Subtract a number close to 100 (e.g. 98)
- Add and subtract money in compound units (dollars and cents) when the cents are multiples of 5 or close to \$1.00

Fractions

- Recognize and name halves and fourths
- Recognize, write, name and illustrate fractions of a whole (denominators 1-12)
- Find the fraction with the same denominator to make a whole with another fraction
- Compare and order unit fractions
- Recognize and name the fraction of a set
- Find the value given the fraction of a set, using objects or drawings

Length, Mass & Capacity

- Compare and measure length and weight by making direct comparisons with reference objects
- Compare and measure capacity by making direct comparisons with reference objects
- Compare and measure length, and weight using nonstandard units
- Compare and measure capacity using nonstandard units

Time

- Tell time to the nearest 5-minute mark (analog clock face)
- Estimate reasonable time intervals
- Find the duration of time intervals
- Find starting or ending times, given a time and the interval

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- Know relationships of time (years, months, days, weeks, hours, and seconds)

Geometry

- Identify, describe, and categorize common 2-dimensional shapes, including the faces of 3-dimensional objects
- Identify common 2-dimensional shapes within compound shapes, combine shapes to form common shapes
- Describe and extend repeating patterns involving color and shapes
- Describe and classify common 3-dimensional shapes according to number and shape of faces, edges and vertices
- Describe and extend repeating patterns involving combination of shapes (compound shapes)

Data Analysis and Probability

- Represent and compare data using picture graphs
- Represent and compare data bar graphs
- Represent and compare data using tally charts
- Collect, organize and analyze data using tables and bar graphs
- Collect, organize and analyze data using tally charts
- Ask and solve questions related to data representation, including finding the range and mode

Algebra

- Solve problems involving numeric equations or inequalities
- Select appropriate operational symbols to make an expression true
- Use boxes and other symbols to stand for unknown numbers in expressions and equations