

Grade 3 - Maths Overview



Whole Numbers

- Count, read, write compare and order numbers to 10,000
- Count By 1s, 10s, 100s and 1,000s to 10,000
- Understand Place Value to 10,000
- Compare number to 10,000
- Find the pattern to complete a number sequence

Addition and Subtraction of Whole Numbers

- Add 4-digit numbers with and without regrouping
- Subtract 4-digit numbers with and without regrouping
- Solve one step addition and subtraction problems using models
- Solve two step addition and subtraction problems using models

Multiplication and Division of Whole Numbers

- Skip count by 6s, 7s, 8s, 9s
- Use known multiplication facts to find other multiplication facts
- Use Commutative Property of Multiplication to find two related multiplication facts for 6, 7 & 8
- Understands the relationship between multiplication and division facts
- Writes division equations for word problems
- Write fact families for multiplication and division
- Solve one step multiplication problems using models
- Solve one step division problems using models
- Multiply numbers up to 3-digits with and without regrouping
- Multiply 1s, 10s, 100s mentally with and without regrouping
- Divide 2-digit numbers by 1-digit numbers
- Use patterns to divide multiples of 10 and 100
- Divide 2- and 3- digit numbers by 1-digit numbers with and without regrouping

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Word Problems

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

Money

- Add money in different ways with and without regrouping
- Subtract money in different way with and without regrouping
- Solve up to two-step word problems involving addition and subtraction of money

Mental Math Strategies

- Use the commutative and associative properties to perform mental calculations and check results.
- Use the distributive property to perform mental calculations and check results.
- Add/Subtract numbers within 100.
- Add/Subtract 1's, 10's, or 100's to numbers within 1000.
- Subtract from 1000.
- 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
- Add/Subtract measurements in compound units.

Fractions

- Compare and order fractions with the same denominator or with the same numerator
- Find equivalent fractions and simplest form of a fraction
- Compare and order fractions with different denominators
- Recognize and name the fraction of a set
- Find the value given the fraction of a set, using objects or drawings
- Find the fraction of a set where the answer is a whole number
- Find coin amounts as a fraction of a dollar
- Add/Subtract like fractions

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Length, Mass & Capacity

- Measure and estimate length of objects in meters and centimeters
- Understand and estimate length in kilometers and miles
- Measure and estimate weight in kilograms, grams, pounds, and ounces
- Measure and estimate capacity in liters
- Measure and estimate capacity in milliliters
- Convert units within a metric system using multiplication
- Add/subtract measurements in compound units

Time

- Tell time to the minute
- Find the duration of time intervals
- Find starting or ending times, given a time and the interval
- Know relationships of time (years, months, days, weeks, hours, and seconds)
- Convert between of units of time

Perimeter, Area, and Volume

- Find the perimeter of polygons
- Find the area of shapes by covering them with unit squares or by counting squares
- Understand and use units of area, such as square centimeter
- Count unit cubes in 2-dimensional representations of 3-dimensional solids
- Find the volume of solid figures by counting cubic units

Geometry

- Describe and classify common 3-dimensional shapes according to number and shape of faces, edges, and vertices
- Identify common 3-dimensional shapes within compound shapes
- Identify and describe polygons
- Identify intersecting and parallel lines
- Identify attributes of triangles and quadrilaterals
- Identify right angles and compare angles to right angles

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Data Analysis and Probability

- 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
- Collect, organize, and analyze data using line plots
- Identify whether common events are certain, likely, unlikely, or impossible
- Record the possible outcomes for a simple event and systematically keep track of the outcome when it is repeated many times
- Summarize and display results of simple probability experiments, use the results to predict future events