

Grade 2

I=Introduce D=Develop I/D=Intro/Dev M=Mastery m=maintain

DATE COMPLETED

Recognize, read, and write place value:

To the left of the decimal point:

By two digits.*	m
By three digits.*	M

Use place value understanding and properties of operations to add and subtract.

Compute with regrouping, 2 or more 2 digit numbers.*	M
Add with regrouping, 2 or more 3 digit numbers.*	I/D
Add with regrouping, 2 or more 4 digit numbers.*	I/D
Subtract multi-digit numbers with no regrouping.*	M
Subtract with regrouping, two 2-digit numbers.*	M
Subtract with regrouping, two 3-digit numbers.	I
Mentally add 10 or 100 to a given number 100-900, and mentally subtract 10 or 100 from a given number 100-900,*	D
Explain why addition and subtraction strategies work, using place value and the identity, commutative, and associative properties of addition.*	D

Work with equal groups of objects to gain foundations for multiplication.

Estimate multiplication.	I
Compute products with factors up to 5x5, with or without manipulatives.*	I

Multiply.

Master multiplication facts through 12.	I
Multiply 2-digit by 1-digit numbers.	I
Commutative Property of Multiplication.	I
Multiply using mental math.	I

Divide.

Master division facts through 12.	I
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Fractions

halves, thirds, half of, a third of, etc., and describe the whole as two halves, three thirds, four fourths.

Recognize and demonstrate $1/2$, $1/3$, $1/4$	M
Recognize and demonstrate fifths through tenths.	D
Recognize and demonstrate Inequalities.	D
Calculate: Equal parts of a whole.	D

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Understand inequalities.

Determine inequalities.	D
Identify more than, less than, equal to.	m
Equalize sets.	m

Use signs of inequality:

=	M
≠, <, >	D
Compare and order odd and even numbers.	D

ALGEBRA

Draw logical conclusions and communicate reasoning:

Using simple materials.	D
Using technology.	D

Understand patterns and relations:

By observing, describing, comparing, and creating.	D
By sorting and classifying by characteristics.	D
By predicting what comes next and identifying the missing element.	D
By distinguishing between growing and repeating patterns.	D
By representing information numerically, graphically, and verbally.	D
By discussing/analyzing change.	D
To identify patterns.	D
Solve simple equations informally.	I

MEASUREMENT

Use manipulative materials to model concepts of measurement.	D
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Measure (or estimate), compare, and/or order objects using appropriate units:

Length: inch, 1/2 inch, 1/4 inch.	D
Length: 1/8 inch, 1/16 inch.	I
Length: foot, yard.	M
Length: mile.	I
Length: millimeter, centimeter, decimeter, meter.	D
Capacity: cup, pint, quart, gallon.	M

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Weight: ounce, pound, ton.	M
Make conversions within English system.	D
Temperature: Fahrenheit.	M
Temperature: Celsius.	D
Measure an object twice, using different appropriate units for the two measurements; describe how the two measurements relate to the size of the unit chosen.*	I/D

Recognize, read, and write time:*

Months, days of the week.	m
Hour, half hour.	m
Half past, quarter past, quarter to.	M
Five minute intervals.	D
Minutes before and after.	I
AM and PM.	I
Digital, analog time.	D
Sequence of events, timelines.	D
Elapsed time, duration, without changing units.	D

Solve problems involving time:

Sequence of events, timelines.	D
Elapsed time, duration, without changing units.	D

Solve word problems involving dollar bills, quarters, dimes, nickels, and pennies, using \$ and c symbols appropriately*:

Recognize, read, and write numbers to describe dollars and cents.	M
Add with dollars and cents.	M
Recognize and count penny, nickel, dime, dollar.	m
Recognize and count quarter, half-dollar.	M
Recognize and count five and ten dollar bills.	M
Recognize and count \$20, \$50, and \$100 bills.	I
Make change.	D

GEOMETRY

Reason with shapes and their attributes.

Recognize and draw shapes having specified attributes, such as a given number of angles or a given number of equal faces.*

Triangles.	m
Quadrilaterals.	m
Squares, rectangles.	m
Pentagons, hexagons, octagons.	D
Irregular shapes.	I
Solid figures: cube.	D

Define, compare, demonstrate, and calculate:

Perimeter.	I
Area (Square, Rectangle).	I
Circumference.	I
Volume.	I

Identify objects by location:

Above, below, before, after, between.	m
Inside, outside, nearest, farthest.	m
Left, right, North, South, East, West.	M

Investigate and predict the result of:

Slide, turn.	D
Changing shapes.	m
Flip.	D

Describe, model, draw, and classify:

Plane elements: point.	D
Ellipse (oval).	m
Circles, semicircles.	m

Describe, model, and classify solid figures:

Cylinder, sphere, cone.	D
Prisms (triangular, rectangular).	I
Pyramid.	I
Determine symmetry, congruency.	D

Construct convincing arguments and proofs to solve problems using geometric figures and patterns:

Using simple materials.	D
Using diagrams.	I

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Using technology.	D
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STATISTICS AND PROBABILITY

Represent and interpret data*.

Discuss and analyze change:

By measuring and comparing quantities.	D
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By using tables and graphs.	D
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By collecting and describing data.	D
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Organize and construct data:

Read and create a real graph (using actual objects).	M
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Interpret and create picture graph, bar graph, line plot.	D
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Interpret and create Venn diagram.	D
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Format Questions.

Conduct experiments, surveys.	D
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Demonstrate data collection methods.	D
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Determine the probability of:

Single event.	D
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Permutations, combinations.	D
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PROBLEM SOLVING

Analyze and plan the problem determining the appropriate strategy by:

Drawing pictures.	D
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Creating original problems.	D
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Determining if sufficient information present to solve.	D
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Using tables, charts, graphs, and diagrams.*	D
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Using Trial and error.	D
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Working backwards.	D
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Sorting, classifying, and using patterns.	D
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Estimation.	D
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Choosing correct operation.	D
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Checking reasonableness.	D
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