Grade 2

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

DATE COMPLETED

NUMBERS AND OPERATIONS

Recognize, read, and write whole numbers to 1000.*	M	
Recognize, read, and write natural numbers.	D	
Recognize, read, and write number words, zero to twenty.	M	
Recongnize, read, and write decade words.	M	
Recognize, read, and write Roman Numerals.	I	
Recognize, read and write numbers to describe "set".	D	
Connect ordinal number to cardinal number, eleventh through twentieth.	m	
Count on from any given number to 100.	m	
Count backward from 20.*	M	
Count backward from any given number up to 100.	D	
Skip count from any given number by 10's.*	m	
Skip count from any given number by 5's.*	M	
Skip count from any given number by 100's.*	M	
Skip count from any given number by 1000's.	I	
Read and write numbers to 1000 using base-ten numerals, number names, and expanded form.	I	

Represent and solve problems involving addition and subtraction.

Add using the number line.	m	
Subtract using the number line.	M	

Add and subtract within 20.

Estimate addition using whole numbers.	D	
Compute sums to 9 using manipulatives.	m	
Compute sums to 18 using manipulatives.	m	
Master addition facts to 12.	m	
Master addition facts to 18.*	M	
Define addend and sum.	M	
Compute, no regrouping, 3 or more addends, 1 digit.	D	
Estimate subtraction using whole numbers.	D	
Compute differences from 18 using manipulatives.	m	
Master subtraction facts to 12.	m	
Master subtraction facts to 18.*	M	
Define subtrahend, minuend, difference.	D	

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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	

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	
Recongize 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

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	

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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

STATISTICS AND PROBABILITY

Represent and interpret data*.

Discuss and analyze change:

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

Organize and construct data:

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

Format Questions.

Conduct experiments, surveys.	D
Demonstrate data collection methods.	D

Determine the probability of:

Single event.	D
Permutations, combinations.	D

PROBLEM SOLVING

Analyze and plan the problem determining the appropriate strategy by:

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