SCOPE AND SEQUENCE GRADE 3

Chapter		Lesson		Objective
Ch1	Place Value and Patterns	Lesson 1	4-Digit Numbers	recognize 4-digit numbers
		Lesson 2	Read and Write 4-Digit Numbers	read and write 4-digit numbers using three different forms
		Lesson 3	Ordering Numbers	ordering 4-digit numbers from least to greatest and vice versa
		Lesson 4	Rounding to the Nearest 10	rounding whole numbers to the nearest 10
		Lesson 5	Rounding to the Nearest 100	rounding whole numbers to the nearest 100
		Lesson 6	Number Patterns	identify number patterns
		Lesson 7	Problem–Solving Strategies	use problem solving strategy to Solve word problem concerning Reading and writing 4- digit numbers, Round numbers to the nearest 10 and 100
Ch2	Addition and Subtraction within 1,000	Lesson 1	Estimate Sums	estimate the sum of two or three numbers
		Lesson 2	Using Place Value to Add	add two 3-digit numbers using place value
		Lesson 3	Using a Number Line to Add	add two 3-digit numbers using a number line
		Lesson 4	Breaking Down to Add	add two 3-digit numbers within 1000 using decomposing strategy
		Lesson 5	Breaking Apart to Add	add two 3-digit numbers within 1000 using compensation
		Lesson 6	Addition Properties	use addition properties to add, 3-digit numbers within 1000
		Lesson 7	Addition Patterns	identify arithmetic patterns including patterns in the addition table using properties of operations
		Lesson 8	Estimate Differences	estimate the difference of two or three numbers
		Lesson 9	Using Place Value to Subtract	subtract two 3-digit numbers using place value
		Lesson 10	Using a Number Line to Subtract	subtract two 3-digit numbers using a number line
		Lesson 11	Breaking Down to Subtract	subtract two 3-digit numbers within 1000 using decomposing strategy
		Lesson 12	Breaking Apart to Subtract	subtract two 3-digit numbers within 1000 using compensation
		Lesson 13	Finding the Missing Part	solve subtraction problems that includes unknowns in both sides

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	Vocabulary	Material	CCSS	Mathematical Practice
	4-digit number, thousand, place value chart	thousand, hundreds and tens blocks	3.NBT.1	MP.2, MP.4, MP.6, MP.7
	expanded form, standard form, word form	thousand, hundreds and tens blocks	3.NBT.1	MP.2, MP.4, MP.6, MP.7
	order, least, greatest	number line	3.NBT.1	MP.2, MP.4, MP.6, MP.7
	round, closer, half way	number line	3.NBT.1	MP.2, MP.4, MP.6, MP.7
		number line	3.NBT.1	MP.2, MP.4, MP.6, MP.7
	pattern, increase, rule, even numbers, odd numbers		3.OA.9	MP.1, MP.2, MP.3, MP.4, MP.7
			3.NBT.1, 3OA.9	MP.2, MP.4, MP.6, MP.7
	estimate, actual, compatible, reasonable		3.NBT.1, 3.OA.8	MP.1, MP.2, MP.3, MP.4, MP.7
		hundreds, tens and ones models	3.NBT.2	MP.1, MP.2, MP.3, MP.4, MP.7
		number line	3.NBT.2	MP.1, MP.2, MP.3, MP.4, MP.7
	break down, decompose		3.NBT.2	MP.1, MP.2, MP.3, MP.4, MP.7
	break apart, compensation, fluently		3.NBT.2	MP.1, MP.2, MP.3, MP.4, MP.7
	property, commutative, associative, identity		3.NBT.2	MP.1, MP.2, MP.3, MP.4, MP.7
	diagonal	hundred chart, addition chart	3.OA.9	MP.1, MP.2, MP.3, MP.4, MP.7
			3.NBT.1, 3.OA.8	MP.1, MP.2, MP.3, MP.4, MP.7
		hundreds, tens and ones models	3.NBT.2	MP.1, MP.2, MP.3, MP.4, MP.7
		number line	3.NBT.2	MP.1, MP.2, MP.3, MP.4, MP.7
	partitioning		3.NBT.2	MP.1, MP.2, MP.3, MP.4, MP.7
			3.NBT.2	MP.1, MP.2, MP.3, MP.4, MP.7
			3.NBT.2	MP.1, MP.2, MP.3, MP.4, MP.7

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Chapter		Lesson		Objective
Ch2		Lesson 14	Problem–Solving Strategies	use the problem solving strategy to solve word problems concerning estimate, adding and subtracting within 1000
Ch3	Understanding Multiplication	Lesson 1	Multiplication as Equal Groups	interpret products as equal groups
		Lesson 2	Multiplication as Repeated Addition	interpret products as repeated addition
		Lesson 3	Multiplication as Arrays	interpret products as arrays
		Lesson 4	Multiplication by Drawing	interpret products by drawing
		Lesson 5	Multiplication on a Number Line	interpret products using number lines
		Lesson 6	The Commutative Property	apply commutative property as strategy to multiply
		Lesson 7	The Associative Property	apply Associative property as strategy to multiply
		Lesson 8	The Distributive Property	apply distribution property as strategy to multiply
		Lesson 9	Multiplying by 0 and 1	apply identity and zero property as strategy to multiply
		Lesson 10	Multiplication Patterns	identify arithmetic patterns including patterns in the multiplication table
		Lesson 11	Problem–Solving Strategies	use the problem solving strategy to solve word problems concerning properties of operations as strategies to multiply
Ch4	Multiplication Tables	Lesson 1	Multiplication Facts of 2	drive and recall multiplication facts of 2
		Lesson 2	Multiplication Facts of 3	drive and recall multiplication facts of 3
		Lesson 3	Multiplication Facts of 4	drive and recall multiplication facts of 4
		Lesson 4	Multiplication Facts of 5	drive and recall multiplication facts of 5
		Lesson 5	Multiplication Facts of 10	drive and recall multiplication facts of 10
		Lesson 6	Multiplication Facts of 6	drive and recall multiplication facts of 6
		Lesson 7	Multiplication Facts of 7	drive and recall multiplication facts of 7
		Lesson 8	Multiplication Facts of 8	drive and recall multiplication facts of 8

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	Vocabulary	Material	CCSS	Mathematical Practice
			3.NBT.2, 3.OA.8	MP.1, MP.2, MP.3, MP.4, MP.7
	equal groups, times, size, multiplication		3.OA.1, 3.OA.3	MP.1, MP.2, MP.3, MP.4, MP.7
	repeated addition, multiplication sentence		3.OA.1, 3.OA.3	MP.1, MP.2, MP.3, MP.4, MP.7
	array, factor, product	arrays	3.OA.1, 3.OA.3	MP.1, MP.2, MP.3, MP.4, MP.7
			3.OA.3	MP.1, MP.2, MP.3, MP.4, MP.7
		number line	3.OA.3	MP.1, MP.2, MP.3, MP.4, MP.7
	commutative, order property	array	3.OA.5	MP.1, MP.2, MP.3, MP.4, MP.7
	parenthesis, grouping property, associative		3.OA.5	MP.1, MP.2, MP.3, MP.4, MP.7
	breaking, distributive property		3.OA.5	MP.1, MP.2, MP.3, MP.4, MP.7
	identity property, zero property		3.OA.5	MP.1, MP.2, MP.3, MP.4, MP.7
	pattern		3.OA.9	MP.1, MP.2, MP.3, MP.4, MP.7
			3.OA.3, 3.OA.5	MP.1, MP.2, MP.3, MP.4, MP.7
	fact, multiple, double, even number		3.OA.7, 3.OA.4	MP.1, MP.2, MP.3, MP.4, MP.7
			3.OA.7, 3.OA.4	MP.1, MP.2, MP.3, MP.4, MP.7
			3.OA.7, 3.OA.4	MP.1, MP.2, MP.3, MP.4, MP.7
			3.OA.7, 3.OA.4	MP.1, MP.2, MP.3, MP.4, MP.7
	naught		3.OA.7, 3.OA.4	MP.1, MP.2, MP.3, MP.4, MP.7
			3.OA.7, 3.OA.4	MP.1, MP.2, MP.3, MP.4, MP.7
			3.OA.7, 3.OA.4	MP.1, MP.2, MP.3, MP.4, MP.7
			3.OA.7, 3.OA.4	MP.1, MP.2, MP.3, MP.4, MP.7

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Chapter		Lesson		Objective
Ch4	Multiplication Tables	Lesson 9	Multiplication Facts of 9	drive and recall multiplication facts of 9
		Lesson 10	Mixed Multiplication Facts	learn to multiply within 100 using different strategies
		Lesson 11	Multiply with Multiples of 10	multiply one-digit whole numbers by multiples of 10
		Lesson 12	Order of Operations	apply order of operation when solving more than one operation
		Lesson 13	Problem–Solving Strategies	use the problem solving strategy to solve two-step word problems concerning multiplication
Ch5	Division	Lesson 1	Division as Equal Sharing	interpret whole-number quotients of whole numbers as equal sharing
		Lesson 2	Division as Repeated Subtraction	interpret whole-number quotients of whole numbers as repeated subtraction
		Lesson 3	Division by Drawing	interpret whole-number quotients of whole numbers by drawing
		Lesson 4	Division by 0 and 1	apply properties of 0 and 1 as strategies to divide
		Lesson 5	Think Multiplication to Divide	divide by recalling multiplication facts
		Lesson 6	Problem–Solving Strategies	use the problem-solving strategy to solve word problem concerning division within 100
		Lesson 7	Dividing by 2 and 3	dividing whole numbers within 100 by 2 and 3 by recalling multiplication facts of 2 and 3
		Lesson 8	Dividing by 4 and 5	dividing whole numbers within 100 by 4 and 5 by recalling multiplication facts of 4 and 5
		Lesson 9	Dividing by 6 and 7	dividing whole numbers within 100 by 6and 7 by recalling multiplication facts of 6 and 7
		Lesson 10	Dividing by 8 and 9	dividing whole numbers within 100 by 8 and 9 by recalling multiplication facts of 8 and 9
		Lesson 11	Order of Operations	using order of operation when solving math problems
		Lesson 12	Problem–Solving Strategies	use the problem solving strategy to solve two-step word problems using the four operations
Ch6	Fractions	Lesson 1	Fractions as a Part of a Whole	divide the whole into equal parts (half, third, fourth, sixth and eighth)
		Lesson 2	Express Fractions	write the fraction of the shaded p
		Lesson 3	Fraction as a Part of a Set	write the fraction as the quantity formed by parts of a set

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	Vocabulary	Material	CCSS	Mathematical Practice
			3.OA.7, 3.OA.4	MP.1, MP.2, MP.3, MP.4, MP.7
			3.OA.7, 3.OA.4	MP.1, MP.2, MP.3, MP.4, MP.7
	multiples of 10, skip counting, decompose		3.NBT.3	MP.1, MP.2, MP.3, MP.4, MP.7
	order, operation unknown		3.OA.8	MP.1, MP.2, MP.3, MP.4, MP.7
			3.OA.8	MP.1, MP.2, MP.3, MP.4, MP.7
	division, share, divided by, division sentence		3.OA.2, 3.OA.3	MP.1, MP.2, MP.3, MP.4, MP.7
	distribute, dividend, divisor, quotient, repeated subtraction	number line	3.OA.2, 3.OA.3	MP.1, MP.2, MP.3, MP.4, MP.7
			3.OA.2, 3.OA.3	MP.1, MP.2, MP.3, MP.4, MP.7
			3.OA.5	MP.1, MP.2, MP.3, MP.4, MP.7
	fact family, inverse relation		3.OA.4, 3.OA.6	MP.1, MP.2, MP.3, MP.4, MP.7
			3.OA.3	MP.1, MP.2, MP.3, MP.4, MP.7
			3.OA.7, 3.OA.8	MP.1, MP.2, MP.3, MP.4, MP.7
			3.OA.4, 3.OA.7, 3.OA.8	MP.1, MP.2, MP.3, MP.4, MP.7
			3.OA.4, 3.OA.7, 3.OA.8	MP.1, MP.2, MP.3, MP.4, MP.7
			3.OA.4, 3.OA.7, 3.OA.8	MP.1, MP.2, MP.3, MP.4, MP.7
			3.OA.8	MP.1, MP.2, MP.3, MP.4, MP.7
			3.OA.8	MP.1, MP.2, MP.3, MP.4, MP.7
	fraction, whole, part, numerator, denominator	fraction stripes	3.NF.1	MP.2, MP.3, MP.6, MP.7
		fraction stripes	3.NF.1	MP.2, MP.3, MP.6, MP.7
			3.NF.1	MP.2, MP.3, MP.6, MP.7

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Chapter		Lesson		Objective
Ch6	Fractions	Lesson 4	Fractions on a Number Line	write fractions on a number line
		Lesson 5	Whole Numbers as Fractions	write whole number as a fraction, write fractions that are equivalent to whole number
		Lesson 6	Equivalent Fractions	understand two fractions as equivalent fractions, find and generate some simple equivalent fractions
		Lesson 7	Comparing Fractions with a Common Denominator	recognize that comparisons are valid only when the two fractions refer to the same whole, compare two fractions with the same denominator
		Lesson 8	Comparing Fractions with a Common Numerator	recognize that comparisons are valid only when the two fractions refer to the same whole, compare two fractions with the same numerator
		Lesson 9	Problem–Solving Strategies	use the problem solving strategy to solve word problems concerning Fractions
Ch7	Measurement	Lesson 1	Telling Time	tell and write time to the nearest minute
		Lesson 2	Time Intervals	measuring time intervals in minutes
		Lesson 3	Real-Time Situations	relate telling and writing time to real situations, recognize AM-PM, calculate time intervals
		Lesson 4	Capacity	measure and estimate liquid volumes of objects using standard units of liters (L)
		Lesson 5	Real-World Capacity	connect capacity to real life situations
		Lesson 6	Mass	measure and estimate masses of objects using standard units of gram (g), kilograms, (kg),
		Lesson 7	Real-World Mass Situation	connect mass to real life situations
Ch8	Data	Lesson 1	Pictographs	draw a scaled picture graph to represent a data set with several categories
		Lesson 2	Bar Graphs	draw a scaled bar graph to represent a data set with several categories
		Lesson 3	Measuring to the Nearest Length	generate measurement data by measuring lengths using rules marked with halves and fourths of an inch
		Lesson 4	Line Plots	show the data by making a line plot
		Lesson 5	Problem–Solving Strategies	use the problem-solving strategy to solve word problem concerning Data
Ch9	Perimeter and Area	Lesson 1	Understanding Perimeter	understanding the meaning of perimeter, finding the perimeter of some simple shapes
		Lesson 2	Perimeter	finding the Perimeter by finding the sum of the sides of the figure

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	Vocabulary	Material	CCSS	Mathematical Practice
	partition, space	number line	3.NF.2	MP.2, MP.3, MP.6, MP.7
	whole numbers		3.NF.3	MP.2, MP.3, MP.6, MP.7
	equivalent fractions	fraction stripes	3.NF.3a, 3.NF.3b	MP.2, MP.3, MP.6, MP.7
	compare, like fractions, common denominator	fraction stripes	3.NF.3d	MP.2, MP.3, MP.6, MP.7
	common numerator, unit fractions	fraction stripes	3.NF.3d	MP.2, MP.3, MP.6, MP.7
			3.NF.1, 3.NF.2, 3.NF.3	MP.2, MP.3, MP.6, MP.7
	telling time, hour, minute, half an hour, quarter hour	analog clock	3.MD.1	MP.2, MP.4, MP.6, MP.7
	time interval	analog clock, number line	3.MD.1	MP.2, MP.4, MP.6, MP.7
	time situation, a m, p m		3.MD.1	MP.2, MP.4, MP.6, MP.7
	capacity, liter, milliliter, metric units		3.MD.2	MP.2, MP.4, MP.6, MP.7
			3.MD.2	MP.2, MP.4, MP.6, MP.7
	mass, matter, kilogram, gram		3.MD.2	MP.2, MP.4, MP.6, MP.7
			3.MD.2	MP.2, MP.4, MP.6, MP.7
	pictograph, key vote		3.MD.3	MP.2, MP.5, MP.6, MP.7
			3.MD.3	MP.2, MP.5, MP.6, MP.7
	half inch, quarter inch, nearest		3.MD.4	MP.2, MP.5, MP.6, MP.7
	line plot, length		3.MD.4	MP.2, MP.5, MP.6, MP.7
			3.MD.3, 3.MD.4	MP.2, MP.5, MP.6, MP.7
	perimeter, side, outside, edge		3.MD.8	MP.2, MP.3, MP.6, MP.7, MP.8
			3.MD.8	MP.2, MP.3, MP.6, MP.7, MP.8

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Chapter		Lesson		Objective
Ch9	Perimeter and Area	Lesson 3	Understanding Area	understanding the meaning of area, finding the area of some simple shapes
		Lesson 4	Measuring Area	measure areas by counting unit square using different units
		Lesson 5	Area of Rectangles	understanding and calculating the formula of area of rectangle
		Lesson 6	Using Properties to Find Area	applying commutative and distributive properties in measuring area of rectangles
		Lesson 7	Area of Composite Shapes	understanding and calculating the area through decomposing figures
		Lesson 8	Area and Perimeter	exhibiting rectangles with the same perimeter and different areas or same area and different perimeters
		Lesson 9	Problem–Solving Strategies	use the problem-solving strategy to solve word problems concerning perimeter and area
Ch10	Geometry	Lesson 1	Angles	knowing and finding angles around us, right angle, angle less than right angle and angle greater than right angle
		Lesson 2	Polygons	name, draw, and classify polygons according to their attributes
		Lesson 3	Quadrilaterals	identifying quadrilaterals according to their attributes
		Lesson 4	Special Kinds of Parallelograms	understand that shapes in different categories may share attributes and that the shared attributes can define a larger category
		Lesson 5	Partitions Figures	partition shapes into parts with equal areas and express the area of each part as a unit fraction of the whole
		Lesson 6	Problem–Solving Strategies	use the problem-solving strategy to solve word problems about understanding that shapes in different categories may share attributes

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	Vocabulary	Material	CCSS	Mathematical Practice
	area, graph paper, square unit	graph paper	3.MD.5a, 3.MD.5b	MP.2, MP.3, MP.6, MP.7, MP.8
	square cm, square inch, square foot, square meter		3.MD.6	MP.2, MP.3, MP.6, MP.7, MP.8
	length, width		3.MD.7a, 3.MD.7b	MP.2, MP.3, MP.6, MP.7, MP.8
	property, application commutative property of multiplication, distributive property		3.MD.7c	MP.2, MP.3, MP.6, MP.7, MP.8
	composite shape, polygon		3.MD.7d	MP.2, MP.3, MP.6, MP.7, MP.8
			3.MD.8	MP.2, MP.3, MP.6, MP.7, MP.8
			3.MD.8	MP.2, MP.3, MP.6, MP.7, MP.8
	angle, line, vertex, side, point, right angle	geometric stripes	3.G.1	MP.1, MP.2, MP.3, MP.5, MP.6, MP.7, MP.8
	polygon, triangle, quadrilateral, pentagon, hexagon, heptagon, octagon	geometric stripes	3.G.1	MP.1, MP.2, MP.3, MP.5, MP.6, MP.7, MP.8
	trapezoid, parallelogram, kite, rectangle, square, rhombus, parallel	geometric stripes	3.G.1	MP.1, MP.2, MP.3, MP.5, MP.6, MP.7, MP.8
	attribute	geometric stripes	3.G.1	MP.1, MP.2, MP.3, MP.5, MP.6, MP.7, MP.8
	partition, unit fraction	geometric stripes	3.G.2	MP.1, MP.2, MP.3, MP.5, MP.6, MP.7, MP.8
			3.G.1, 3.G.2	MP.1, MP.2, MP.3, MP.5, MP.6, MP.7, MP.8

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