

	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
Number and Operations in Base Ten – Whole Numbers					
Count	Count to 120.	Count to 1,200.	Count to 100,000.		
	Count by twos, fives, and tens to 100	Count by hundreds, tens, and ones.	Count by hundreds, tens, and ones.	Count by hundred thousands, ten thousands, and thousands.	Count by millions, hundred thousands, ten thousands, and thousands.
		Skip-count by 5s, 10s, and 100s.	Skip count by 100s and 1,000s.		
Positions and Ordinal Numbers	Name positions in a race and in a line.				
	Name positions in a row from the left and from the right.				
	Describe positions.				
Read and write	Read and write numbers to 120 in numerals and in words.	Read and write numbers to 1,000 using numerals, number names, and expanded form.	Read and write numbers to 10,000 using numerals, number names, and expanded form.	Read and write numbers up to 1,000,000 using numerals, number names, and expanded form.	Read and write numbers to 10,000,000.
Place Value	Tell what number each digit in a number within 100 stands for.	Tell what number each digit in a number within 1,000 stands for.	Tell what number each digit in a number within 10,000 stands for.	Tell what number each digit in a number within 1,000,000 stands for.	Tell what number each digit in a number within 10,000,000 stands for.
Compare and Arrange	Compare and arrange numbers within 100.	Compare and arrange numbers within 1,000.	Compare and arrange numbers within 10,000.	Compare and arrange numbers within 1,000,000.	Compare and arrange numbers within 10,000,000.

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Round Numbers			Round numbers to the nearest 10 and 100.	Round numbers to the nearest 10, 100, 1,000, 10,000, and 100,000.	Round numbers to the nearest 10, 100, 1,000, 10,000, 100,000, and 1,000,000.
Number and Operations in Base Ten – Decimals					
Decimals				<p>Read and write decimal numbers to hundredths.</p> <p>Tell the place value of a digit in a decimal number with up to 2 decimal places.</p> <p>Compare and arrange decimal numbers with up to 2 decimal places.</p> <p>Use addition and subtraction of like fractions to add and subtract decimal numbers with up to 2 decimal places.</p>	<p>Read and write decimal numbers to thousandths.</p> <p>Tell the place value of a digit in a decimal number with up to 3 decimal places.</p> <p>Compare and arrange decimal numbers with up to 3 decimal places.</p> <p>Round decimal numbers with up to 3 decimal places to the nearest hundredth, nearest tenth, and nearest whole number.</p> <p>Add and subtract decimals to hundredths.</p>

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					Multiply and divide decimals to hundredths with one-digit and two-digit whole numbers.
Operations and Algebraic Thinking					
Decompose Numbers	Make different number bonds for numbers up to 10.				
	Make number stories.				
Addition and Subtraction	Add by counting, counting on, making 10, and adding ones.	Add and subtract numbers up to 1,000 without and with regrouping.	Add and subtract numbers up to 10,000 without and with regrouping.	Add and subtract numbers up to 1,000,000 without and with regrouping.	
	Add three numbers.		Add and subtract numbers mentally.	Estimate sum and difference.	
	Write addition and subtraction equations.			Add and subtract numbers mentally.	
	Make addition and subtraction stories.				
	Subtract by crossing out, using number bonds, counting back, subtracting ones, and subtracting from 10.				

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	<p>Make a family of addition and subtraction facts.</p> <p>Do simple addition and subtraction, and add and subtract numbers with regrouping.</p>				
Multiplication and Division		Make equal groups and rows, and use skip-counting and adding to multiply.	Multiply two 1-digit numbers to get multiplication facts, and multiply 2-digit and 3-digit numbers.	Multiply 3-digit numbers by 1-digit numbers, 4-digit numbers by 1-digit numbers, and 2-digit numbers by 2-digit numbers.	Multiply whole numbers by powers of ten and multiply numbers up to 4-digit numbers by 2-digit whole numbers.
		Double small numbers.			
		Divide by grouping and sharing.	Divide 2-digit number by 1-digit number using multiplication facts, and divide 2-digit and 3-digit numbers.	Divide 3-digit and 4-digit numbers with and without remainder.	Divide numbers up to 4-digit numbers by 2-digit whole numbers and divide whole numbers by powers of ten.
					Interpret remainders in division.

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		Write multiplication and division equations.	Make a family of multiplication and division facts.		
			Use multiplication and division to solve word problems.		
				Find multiples and factors, identify prime numbers and composite numbers.	
		Recognize odd and even numbers.	Show that a number is odd or even.		
Word Problems	Solve word problems involving addition or subtraction, and addition of three numbers.	Solve word problems involving addition, subtraction, multiplication, and division.	Solve word problems involving addition, subtraction, multiplication, and division.	Solve word problems involving addition, subtraction, multiplication, and division.	Solve word problems involving addition, subtraction, multiplication, and division.
					Solve word problems involving whole numbers and fractions including mixed numbers and decimals.
		Draw models for different situations to solve addition and subtraction word problems.	Solve word problems using objects, diagrams, and equations including a letter to represent an unknown number.	Solve word problems using objects, diagrams, and equations including a letter to represent an unknown number.	Solve word problems using objects, diagrams, and equations including a letter to represent an unknown number.

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Algebra					<p>Use words, symbols, and letters to describe and complete a number pattern.</p> <p>Write algebraic expressions.</p> <p>Show relationship between numbers in number patterns using a graph.</p>
Number and Operations – Fractions					
Understand Fractions	Show halves and fourths (quarters) of a shape.	Show half, fourth (quarter), third, and eighth of a shape.	Show half, fourth (quarter), third, sixth, and eighth of a shape.	Show half, fourth (quarter), third, fifth, sixth, eighth, tenth, and twelfth of a shape.	
		Write half, fourth (quarter), third, and eighth in words and symbols.	Write half, fourth (quarter), third, sixth, and eighth in words and symbols, and express whole numbers as fractions.	Write half, fourth (quarter), third, fifth, sixth, eighth, tenth, and twelfth in words and symbols.	
				Recognize and write mixed numbers and improper fractions.	

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			Find equivalent fractions.	Find equivalent fractions.	
			Compare and order fractions by using visual fraction models and showing fractions on number lines.	Compare and order fractions by using visual fraction models and showing fractions on number lines.	
				Show fractions including mixed numbers and improper fractions on a number line.	
				Write mixed numbers as improper fractions and improper fractions as mixed numbers.	Write improper fractions as mixed numbers.
					Simplify fractions.
Addition and Subtraction				Add and subtract fractions and mixed numbers.	Add and subtract fractions and mixed numbers.
				Solve word problems involving addition and subtraction of fractions and mixed numbers.	Use estimation to check answers to calculations.

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Multiplication and Division				Multiply fractions including mixed numbers by whole numbers.	Multiply fractions including mixed numbers by whole numbers.
					Multiply two fractions.
				Solve word problems involving multiplication of fractions.	Divide unit fractions by whole numbers, and vice versa.
				Solve word problems involving addition, subtraction, multiplication, and division of fractions including mixed numbers.	
Measurement and Data					
Length and Height	Measure length and height in units.	Measure length and height in meters, centimeters, yards, feet, and inches.	Measure length and height using rulers marked with halves and fourths of yards, feet, inches, meters, and centimeters.	Measure length and height in miles, yards, feet, inches, kilometers, meters, and centimeters.	Measure length and height in miles, yards, feet, inches, kilometers, meters, centimeters, and millimeters.
				Change meters into centimeters and feet into inches.	Convert measurements of length (cm, mm, m, cm, km, m, ft, in, yd, and ft).
	Compare and order length and height by observation.	Compare and order length and height by using number line and measuring.			

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		Estimate length and height using feet, inches, meters, and centimeters.	Read scales on rulers (marked with halves and fourths of yards, feet, inches, meters, and centimeters) to measure length and height in yards, feet, inches, meters, and centimeters.	Read scales on rulers including meter ruler to measure length and height in feet, inches, meters, and centimeters.	Read scales on rulers including meter ruler to measure length and height in centimeters, millimeters, and meters.
		Solve word problems on length and height.		Solve problems involving measurements of length.	Solve problems involving conversion of measurements of length.
Mass			Measure and estimate mass in kilograms and grams.	Measure mass in pounds, ounces, kilograms, and grams.	Measure mass in pounds, ounces, kilograms, and grams.
				Change kilograms into grams and pounds into ounces.	Convert measurements of mass (between kg and g, and lb and oz).
				Read scales on weighing machines.	Read scales on weighing machines.
			Solve word problems on mass.	Solve problems involving measurements of mass.	Solve problems involving conversion of measurements of mass.

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Volume of Liquid			Measure and estimate volume of liquid in liters.	Measure volume of liquid in liters, milliliters, gallons, quarts, pints, cups, and fluid ounces.	Measure volume of liquid in liters, milliliters, gallons, quarts, pints, cups, and fluid ounces.	
					Change liters into milliliters.	Convert measurements of volume (<i>l</i> , ml, cup, fl oz, pint, quart, gallon, and quart).
					Read scales on beakers and measuring cylinders.	Read scales on beakers and measuring cylinders.
			Solve word problems on volume.	Solve problems involving measurements of volume.	Solve problems involving conversion of measurements of volume.	
Volume of Solids					Find the volume of solids, including cubes, and right rectangular prisms.	
					Find the capacity of rectangular boxes.	
					Solve problems involving volume of solids.	

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Time	Use words such as minutes, hours, days, weeks, months, and years.	Use words such as seconds, minutes, hours, days, weeks, months, and years.	Use words such as seconds, minutes, hours, days, weeks, months, and years.	Use words such as seconds, minutes, hours, days, weeks, months, and years.	Use words such as seconds, minutes, hours, days, weeks, months, years, decades, and centuries.
	Tell and write time in hours and half-hours using analog and digital clocks.	Tell and write time from analog and digital clocks to the nearest 5 minutes, using a.m. and p.m.	Tell and write time from analog and digital clocks to the nearest minute, using a.m. and p.m.	Tell and write time to the nearest minute, using a.m. and p.m., and 24-hour clock notation.	Tell and write time to the nearest minute, using a.m. and p.m., and 24-hour clock notation.
	Arrange the days of the week and months of the year in order.	Arrange the days of the week and months of the year in order.	Arrange the days of the week and months of the year in order.		
	Recognize days and months on a calendar.	Use a calendar to find things like the number of weeks in a year.	Use a calendar to find the number of days given the start and end date.	Use a calendar to find the duration of an event, or the start or end date of the event.	Find the date (e.g. arrival date) in word problems.
		Change minutes to seconds.	Change seconds to minutes, minutes to hours.	Change minutes to seconds and solve problems.	Change units of time including hours, minutes, and seconds.
			Measure time intervals in minutes.	Measure time intervals in seconds, minutes, and hours.	Measure time intervals in seconds, minutes, hours, minutes and seconds, and hours and minutes.

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			Solve word problems involving addition and subtraction of time intervals.	Solve problems involving time in hours, minutes, seconds, months, weeks, and days.	Solve word problems involving time.
Money	Recognize coins and count to tell the amount of money.	Name the amount of money in dollars and cents.		Tell an amount of money and write it as a decimal.	Solve word problems involving addition, subtraction, multiplication, and division of money.
		Add and subtract money in dollars and cents.	Add and subtract money in dollars and cents.	Add, subtract, multiply, and divide money in dollars and cents.	
		Solve word problems involving dollar bills, quarters, dimes, nickels, and pennies, using \$ and ¢ symbols appropriately.	Solve word problems involving addition and subtraction of money.	Solve problems involving multiplication and division of money.	
Data	Make lists, tables, and picture graphs.	Draw picture graphs, bar graphs, and line plots.	Draw, read, and interpret picture graphs, bar graphs, and line plots.	Draw, read, and interpret line plots displaying a data set of measurements in fractions of a unit ($\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$).	Draw, read, and interpret line plots displaying a data set of measurements in fractions of a unit ($\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$).
	Make and read picture graphs and tally charts.	Read and interpret picture graphs, bar graphs, and line plots.			Draw, read, and interpret line graphs.

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		Solve problems using information from picture graphs, bar graphs, and line plots.	Solve problems using information from picture graphs, bar graphs, and line plots.	Solve problems using information from line plots (involving operations on fractions).	Solve problems using information from line plots (involving operations on fractions) and line graphs.
Geometry					
Two-dimensional Shapes	Name two-dimensional shapes (square, rectangle, triangle, circle, and trapezoid).	Name triangles, quadrilaterals (including squares, rectangles, rhombuses, and trapezoids), pentagons, and hexagons.	Recognize squares, rectangles, and rhombuses as examples of quadrilaterals.	Identify scalene, isosceles, equilateral, and right triangles.	Define the terms rectangle and parallelogram.
		Draw two-dimensional shapes.	Draw quadrilaterals including those that are not squares, rectangles, and rhombuses.	Draw polygons including quadrilaterals and triangles.	
	Sort two-dimensional shapes in different ways (e.g. color, orientation, and size).	Sort two-dimensional shapes in different ways (e.g. number of angles, sides, and vertices).	Sort two-dimensional shapes in different ways (e.g. number of right angles and equal sides).	Sort two-dimensional shapes based on the presence or absence of parallel or perpendicular lines, or the presence or absence of angles of a specified size.	Sort two-dimensional shapes in a hierarchy according to their properties.

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	<p>Make and complete patterns with two-dimensional shapes (e.g. shape, size, color, and orientation).</p> <p>Make two-dimensional shapes using other two-dimensional shapes.</p>	<p>Make and complete patterns with two-dimensional shapes (e.g. shape, size, color, and orientation).</p> <p>Make two-dimensional shapes using other two-dimensional shapes.</p>		<p>Identify symmetric figures.</p> <p>Identify and draw lines of symmetry.</p>	
Three-dimensional Shapes	<p>Name three-dimensional shapes (cubes, rectangular prisms, cylinders, cones, and spheres).</p> <p>Make structures with three-dimensional shapes (cube, sphere, cylinder, cone, and rectangular prism).</p>	<p>Name cubes, rectangular prisms, triangular prisms, cylinders, cones, and spheres.</p> <p>Recognize three-dimensional shapes from drawings.</p> <p>Make structures using three-dimensional shapes (cube, sphere, cylinder, cone, rectangular prism, and triangular prism).</p>			

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	Sort three-dimensional shapes in different ways (e.g. shape, size, color, and orientation).	Sort three-dimensional shapes in different ways (e.g. type of faces).			
	Make and complete patterns with three-dimensional shapes (e.g. color, orientation, and size).	Make and complete patterns with three-dimensional shapes (e.g. number of cubes used to build each shape).			
Angles		Understand what an angle is and identify angles in two-dimensional shapes (<i>laying the foundations of angles</i>).		Identify right angles and know that a right angle is 90 degrees.	
				Measure angles using a protractor and use degrees as a unit of measure of angles.	
				Identify acute angles, right angles, and obtuse angles.	
				Draw angles.	

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				Identify and draw perpendicular and parallel lines. Solve problems involving angles.	
Coordinate Geometry					Use coordinates. Plot points identified by coordinates.
Perimeter and Area		Partition a rectangle into rows and columns of same-size squares and count to find the total number of them (<i>laying the foundations of perimeter and area</i>).	Measure and calculate the perimeter of figures. Find the length of a side of a figure given its perimeter. Measure area using a square unit. Find area of figures using square grids.	Find the perimeter and area of polygons including squares and rectangles. Use formulas to find the perimeter and area of squares and rectangles. Find the length of a side in a square or a rectangle, given its perimeter or area. Use different units of area. Estimate area of shapes with curved sides.	

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			Calculate area of squares and rectangles using multiplication.		
			Find the area of figures made up of squares and rectangles.		
			Solve problems involving perimeter (squares, rectangles, triangles, and trapezoids) and area (squares and rectangles).	Solve problems involving perimeter and area of polygons.	
			Show that figures that have the same area can have the same or different perimeter.		