## Mathematics B.E.S.T. Standards Progression: K-5

		Kindergarten		Grade 1		Grade 2		Grade 3		Grade 4		Grade 5
	MA.K.NSO.1	MA.K.NSO.1.1	MA.1.NSO.1	MA.1.NSO.1.1	MA.2.NSO.1	MA.2.NSO.1.1	MA.3.NSO.1	MA.3.NSO.1.1	MA.4.NSO.1	MA.4.NSO.1.1	MA.5.NSO.1	MA.5.NSO.1.1
	Develop an	Given a group of up to 20 objects, count the number of	Extend counting	Starting at a given number, count forward and	Understand the	Read and write numbers from 0 to 1,000 using	Understand the	Read and write numbers from 0 to 10,000 using	Understand place	Express how the value of a digit in a multi-digit	Understand the	Express how the value of a digit in a multi-digit
	understanding for	objects in that group and represent the number of objects with a written numeral. State the number of objects in a	sequences and	backwards within 120 by ones. Skip count by 2s to 20 and by 5s to 100.	place value of three-	standard form, expanded form and word form.	place value of four-	standard form, expanded form and word form.	value for multi-digit			number with decimals to the thousandths changes if the digit moves one or more places to the left or right.
		rearrangement of that group without recounting.	understand the	25 to 25 that by 55 to 260.	digit numbers.		digit numbers.		numbers.	place to the left of right.	digit numbers with	the digit moves one of more places to the left of right
	in a set.		place value of two-		algie namberst		albrendense				decimals to the	
	in a sec.	MA.K.NSO.1.2	digit numbers.	MA.1.NSO.1.2		MA.2.NSO.1.2		MA.3.NSO.1.2		MA.4.NSO.1.2		MA.5.NSO.1.2
		Given a number from 0 to 20, count out that many objects.	uigit numbers.	Read numbers from 0 to 100 written in standard form, expanded form and word		Compose and decompose three-digit numbers in multiple ways using hundreds, tens and ones.		Compose and decompose four-digit numbers in multiple ways using thousands, hundreds, tens and		Read and write multi-digit whole numbers from 0 to 1,000,000 using standard form,	thousanutris place.	Read and write multi-digit numbers with decimals to the thousandths using standard form, word form and
				form. Write numbers from 0 to 100 using		Demonstrate each composition or decomposition with		ones. Demonstrate each composition or		expanded form and word form.		expanded form.
				standard form and expanded form.		objects, drawings and expressions or equations.		decomposition using objects, drawings and				
								expressions or equations.				
		MA.K.NSO.1.3		MA.1.NSO.1.3		MA.2.NSO.1.3		MA.3.NSO.1.3		MA.4.NSO.1.3		MA.5.NSO.1.3
		Identify positions of objects within a sequence using the		Compose and decompose two-digit numbers		Plot, order and compare whole numbers up to 1,000.		Plot, order and compare whole numbers up to		Plot, order and compare multi-digit whole		Compose and decompose multi-digit numbers with
		words "first," "second," "third," "fourth" or "fifth."		in multiple ways using tens and ones. Demonstrate each composition or				10,000.		numbers up to 1,000,000.		decimals to the thousandths in multiple ways using the values of the digits in each place. Demonstrate the
				decomposition with objects, drawings and								compositions or decompositions using objects,
				expressions or equations.								drawings and expressions or equations.
		MA.K.NSO.1.4		MA.1.NSO.1.4		MA.2.NSO.1.4		MA.3.NSO.1.4		MA.4.NSO.1.4		MA.5.NSO.1.4
		Compare the number of objects from 0 to 20 in two groups		Plot, order and compare whole numbers up to		Round whole numbers from 0 to 100 to the nearest 10.		Round whole numbers from 0 to 1,000 to the nearest		Round whole numbers from 0 to 10,000 to		Plot, order and compare multi-digit numbers with
		using the terms less than, equal to or greater than.		100.				10 or 100.		the nearest 10, 100 or 1,000.		decimals up to the thousandths.
<u> </u>										MA.4.NSO.1.5		MA.5.NSO.1.5 Round multi-digit numbers with decimals to the
(NSO)										Plot, order and compare decimals up to the hundredths.		thousandths to the nearest hundredth, tenth or whole
5												number.
OPERATIONS	MA.K.NSO.2	MA.K.NSO.2.1 Recite the number names to 100 by ones and by tens. Starting	MA.1.NSO.2	MA.1.NSO.2.1 Recall addition facts with sums to 10 and	MA.2.NSO.2	MA.2.NSO.2.1 Recall addition facts with sums to 20 and related	MA.3.NSO.2	MA.3.NSO.2.1 Add and subtract multi-digit whole numbers including	MA.4.NSO.2	MA.4.NSO.2.1 Recall multiplication facts with factors up to	MA.5.NSO.2	MA.5.NSO.2.1 Multiply multi-digit whole numbers including using a
วิ		at a given number, count forward within 100 and backward		related subtraction facts with automaticity.	Add and subtract	subtraction facts with automaticity.	Add and subtract	using a standard algorithm with procedural fluency.		12 and related division facts with	Add, subtract,	standard algorithm with procedural fluency.
Ē	sequentially within 100	within 20.	understanding of		two- and three-digit		multi-digit whole		understanding of	automaticity.	multiply and divide	
₹	and develop an	MA.K.NSO.2.2	addition and	MA.1.NSO.2.2	whole numbers.	MA.2.NSO.2.2	numbers. Build an	MA.3.NSO.2.2	operations with	MA.4.NSO.2.2	multi-digit	MA.5.NSO.2.2
Ľ	understanding for place	Represent whole numbers from 10 to 20, using a unit of ten	subtraction	Add two whole numbers with sums from 0 to		Identify the number that is ten more, ten less, one	understanding of	Explore multiplication of two whole numbers with	multi-digit numbers	Multiply two whole numbers, up to three	numbers.	Divide multi-digit whole numbers, up to five digits by
ד –	value.	and a group of ones, with objects, drawings and expressions	operations with one	<ul> <li>20, and subtract using related facts with</li> </ul>		hundred more and one hundred less than a given three-	multiplication and	products from 0 to 144, and related division facts.	including decimals.	digits by up to two digits, with procedural		two digits, including using a standard algorithm with
		or equations.	and two-digit	procedural reliability.		digit number.	division operations.			reliability.		procedural fluency. Represent remainders as fractions.
ø			numbers.									
SENSE		MA.K.NSO.2.3		MA.1.NSO.2.3		MA.2.NSO.2.3		MA.3.NSO.2.3		MA.4.NSO.2.3		MA.5.NSO.2.3
Z		Locate, order and compare numbers from 0 to 20 using the number line and terms less than, equal to or greater than.		Identify the number that is one more, one less, ten more and ten less than a given two-		Add two whole numbers with sums up to 100 with procedural reliability. Subtract a whole number from a		Multiply a one-digit whole number by a multiple of 10, up to 90, or a multiple of 100, up to 900, with		Multiply two whole numbers, each up to two digits, including using a standard algorithm		Add and subtract multi-digit numbers with decimals to
2		number line and terms less than, equal to or greater than.		digit number.		whole number, each no larger than 100, with		procedural reliability.		with procedural fluency.		the thousandths, including using a standard algorithm with procedural fluency.
Ľ						procedural reliability.						
NUMBER				MA.1.NSO.2.4		MA.2.NSO.2.4		MA.3.NSO.2.4		MA.4.NSO.2.4		MA.5.NSO.2.4
5				Explore the addition of a two-digit number and a one-digit number with sums to 100.		Explore the addition of two whole numbers with sums up to 1.000. Explore the subtraction of a whole number		Multiply two whole numbers from 0 to 12 and divide using related facts with procedural reliability.		Divide a whole number up to four digits by a one-digit whole number with procedural		Explore the multiplication and division of multi-digit numbers with decimals to the hundredths using
5				and a one againamper with samp to 100.		from a whole number, each no larger than 1,000.		dang related facts with procedural relation().		reliability. Represent remainders as fractional		estimation, rounding and place value.
Z										parts of the divisor.		
				MA.1.NSO.2.5								MA.5.NSO.2.5
				Explore subtraction of a one-digit number						MA.4.NSO.2.5 Explore the multiplication and division of multi-		MIA.5.NSO.2.5 Multiply and divide a multi-digit number with
				from a two-digit number.						digit whole numbers using estimation,		decimals to the tenths by one-tenth and one-
										rounding and place value.		hundredth with procedural reliability.
										MA.4.NSO.2.6		
										Identify the number that is one-tenth more,		
										one-tenth less, one-hundredth more and one-		
										hundredth less than a given number.		
										MA.4.NSO.2.7		
										Explore the addition and subtraction of multi-		
										digit numbers with decimals to the hundredths.		
		MA.K.NSO.3.1								nunur eutits.		
	MA.K.NSO.3	MA.K.NSO.3.1 Explore addition of two whole numbers from 0 to 10, and										
	Develop an	related subtraction facts.										
	understanding of											
	addition and	MA.K.NSO.3.2										
	auchtraction anarctions	Add two one-digit whole numbers with sums from 0 to 10 and										
	with one-digit whole	subtract using related facts with procedural reliability.										

	Kindergarten		Grade 1		Grade 2		Grade 3		Grade 4		Grade 5
		MA.1.FR.1	MA.1.FR.1.1	MA.2.FR.1	MA.2.FR.1.1	MA.3.FR.1	MA.3.FR.1.1	MA.4.FR.1	MA.4.FR.1.1	MA.5.FR.1	MA.5.FR.1.1
		Develop an	Partition circles and rectangles into two and four equal-sized parts. Name the parts of the		Partition circles and rectangles into two, three or four equal-sized parts. Name the parts using appropriate	Understand	Represent and interpret unit fractions in the form 1/n as the quantity formed by one part when a whole is	Develop an	Model and express a fraction, including mixed numbers and fractions greater than one, with	Interpret a fraction	Given a mathematical or real-world problem, represent the division of two whole numbers as a
		understanding of	whole using appropriate language including	understanding of	language, and describe the whole as two halves, three	fractions as	partitioned into n equal parts.	understanding of	the denominator 10 as an equivalent fraction	as an answer to a	fraction.
		fractions by	halves or fourths.	fractions.	thirds or four fourths.	numbers and		the relationship		division problem.	
		partitioning shapes			MA.2.FR.1.2	represent fractions.	MA.3.FR.1.2	between different	MA.4.FR.1.2		
		into halves and			Partition rectangles into two, three or four equal-sized		Represent and interpret fractions, including fractions	fractions and the	Use decimal notation to represent fractions		
		fourths.			parts in two different ways showing that equal-sized		greater than one, in the form of m/n as multiples of a	relationship	with denominators of 10 or 100, including		
					parts of the same whole may have different shapes.		unit fraction.	between fractions	mixed numbers and fractions greater than 1, and use fractional notation with denominators		
								and decimals.	of 10 or 100 to represent decimals.		
							MA.3.FR.1.3 Read and write fractions, including fractions greater		MA.4.FR.1.3 Identify and generate equivalent fractions,		
							than one, using standard form, numeral-word form		including fractions greater than one. Describe		
							and word form.		how the numerator and denominator are		
									affected when the equivalent fraction is created.		
									MA.4.FR.1.4		
З С									Plot, order and compare fractions, including mixed numbers and fractions greater than		
Ē									one, with different numerators and different		
S									denominators.		
FRACTIONS (FR)											
Ĕ						MA.3.FR.2	MA.3.FR.2.1 Plot, order and compare fractional numbers with the	MA.4.FR.2		MA.5.FR.2	MA.5.FR.2.1 Add and subtract fractions with unlike denominators,
Ŷ							same numerator or the same denominator.		numbers and fractions greater than one into	renorm operations	including mixed numbers and fractions greater than 1,
R						fractions and		of addition,	a sum of fractions with the same denominator in multiple ways. Demonstrate each	with fractions.	with procedural reliability.
ш.						identify equivalent		subtraction and	decomposition with objects, drawings and		
						fractions.		multiplication	equations.		
							MA.3.FR.2.2	operations with	MA.4.FR.2.2		MA.5.FR.2.2
							Identify equivalent fractions and explain why they are	fractions.	Add and subtract fractions with like		Extend previous understanding of multiplication to
							equivalent.		denominators, including mixed numbers and		multiply a fraction by a fraction, including mixed
									fractions greater than one, with procedural reliability.		numbers and fractions greater than 1, with procedural reliability.
									chooney.		procedular reliability.
									MA.4.FR.2.3		MA.5.FR.2.3
									Explore the addition of a fraction with		When multiplying a given number by a fraction less
									denominator of 10 to a fraction with denominator of 100 using equivalent		than 1 or a fraction greater than 1, predict and explain the relative size of the product to the given number
									fractions.		without calculating.
									MA.4.FR.2.4 Extend previous understanding of		MA.5.FR.2.4 Extend previous understanding of division to explore
									multiplication to explore the multiplication of		the division of a unit fraction by a whole number and
									a fraction by a whole number or a whole		a whole number by a unit fraction.
									number by a fraction.		
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## Mathematics B.E.S.T. Standards Progression: K-5

		Kindergarten		Grade 1		Grade 2		Grade 3		Grade 4		Grade 5
	MA.K.AR.1	MA.K.AR.1.1	MA.1.AR.1	MA.1.AR.1.1	MA.2.AR.1	MA.2.AR.1.1	MA.3.AR.1	MA.3.AR.2.1	MA.4.AR.1	MA.4.AR.1.1	MA.5.AR.1	MA.5.AR.1.1
	addition problems with sums between 0 and 10 and subtraction problems using related	For any number from 1 to 9, find the number that makes 10 when added to the given number. MA.K.AR.1.2 Given a number from 0 to 10, find the different ways it can be represented as the sum of two numbers.	Solve addition problems with sums between 0 and 20 and subtraction problems using related facts.	Apply properties of addition to find a sum of three or more whole numbers. MA.1.AR.1.2 Solve addition and subtraction real-world problems using objects, drawings or equations to represent the problem.	Solve addition problems with sums between 0 and 100 and related subtraction problems.	Solve one- and two-step addition and subtraction real- world problems.	Solve multiplication and division problems.	Apply the distributive property to multiply a one-digit number and two-digit number. Apply properties of multiplication to find a product of one-digit whole numbers. MA.3.AR.1.2 Solve one- and two-step real-world problems involving any of four operations with whole numbers.	the four operations with whole numbers and	Solve real-world problems involving multiplication and division of whole numbers including problems in which remainders must be interpreted within the context. MA.4.AR.1.2 Solve real-world problems involving addition and subtraction of fractions with like denominators, including mixed numbers and	Solve problems involving the four operations with whole numbers and fractions.	Solve multi-step real-world problems involving any combination of the four operations with whole numbers, including problems in which remainders must be interpreted within the context. MA.5.AR.1.2 Solve real-world problems involving the addition, subtraction or multiplication of fractions, including mixed numbers and fractions greater than 1.
		MA.K.AR.1.3 Solve addition and subtraction real-world problems using objects, drawings or equations to represent the problem.								fractions greater than one. MA.4.AR.1.3 Solve real-world problems involving multiplication of a fraction by a whole number or a whole number by a fraction.		MA.5.AR.1.3 Solve real-world problems involving division of a unit fraction by a whole number and a whole number by a unit fraction.
SONING (AR)	Develop an	MA.K.AR.2.1 Explain why addition or subtraction equations are true using objects or drawings.	MA.1.AR.2 Develop an understanding of the relationship between addition and subtraction.	MA.1.AR.2.1 Restate a subtraction problem as a missing addend problem using the relationship between addition and subtraction. MA.1.AR.2.2 Determine and explain if equations involving addition or subtraction are true or false.	MA.2.AR.2 Demonstrate an understanding of equality and addition and subtraction.	MA.2.AR.2.1 Determine and explain whether equations involving addition and subtraction are true or false. MA.2.AR.2.2 Determine the unknown whole number in an addition or subtraction equation, relating three or four whole	MA.3.AR.2 Develop an understanding of equality and multiplication and division.	MA.3.AR.2.1 Restate a division problem as a missing factor problem using the relationship between multiplication and division. MA.3.AR.2.2 Determine and explain whether an equation involving multiplication or division is true or false.	understanding of equality and operations with whole numbers.	MA.4.AR.2.1 Determine and explain whether an equation involving any of the four operations with whole numbers is true or false. MA.4.AR.2.2 Given a mathematical or real-world context, write an equation involving multiplication or	MA.5.AR.2 Demonstrate an understanding of equality, the order of operations and equivalent numerical	MA.5.AR.2.1 Translate written real-world and mathematical descriptions into numerical expressions and numerical expressions into written mathematical descriptions. MA.5.AR.2.2 Evaluate multi-step numerical expressions using order of operations.
GEBRAIC REAS				MA.1.AR.2.3 Determine the unknown whole number in an addition or subtraction equation, relating three whole numbers, with the unknown in any position.		numbers, with the unknown in any position.		MA.3.AR.2.3 Determine the unknown whole number in a multiplication or division equation, relating three whole numbers, with the unknown in any position.		division to determine the unknown whole number with the unknown in any position.	expressions.	MA.5.AR.2.3 Determine and explain whether an equation involving any of the four operations is true or false.
ALG												MA.5.AR.2.4 Given a mathematical or real-world context, write an equation involving any of the four operations to determine the unknown whole number with the unknown in any position.
					MA.2.AR.3 Develop an understanding of multiplication.	MA.2.AR.3.1 Represent an even number using two equal groups or two equal addends. Represent an odd number using two equal groups with one left over or two equal addends plus 1. MA.2.AR.3.2 Use repeated addition to find the total number of objects in a collection of equal groups. Represent the total number of objects using rectangular arrays and equations.	MA.3.AR.3 Identify numerical patterns, including multiplicative patterns.	MA.3.AR.3.1 Determine and explain whether a whole number from 1 to 1,000 is even or odd. MA.3.AR.3.2 Determine whether a whole number from 1 to 144 is a multiple of a given one-digit number.		MA.4.AR.3.1 Determine factor pairs for a whole number from 0 to 14.4 Lotermine whether a whole number from 0 to 144 is prime, composite or neither. MA.4.AR.3.2 Generate, describe and extend a numerical pattern that follows a given rule.	MA.5.AR.3 Analyze patterns and relationships between inputs and outputs.	MA.5.AR.3.1 Given a numerical pattern, identify and write a rule that can describe the pattern as an expression. MA.5.AR.3.2 Given a rule for a numerical pattern, use a two- column table to record the inputs and outputs.
								MA.3.AR.3.3 Identify, create and extend numerical patterns.				

## Mathematics B.E.S.T. Standards Progression: K-5

		Kindergarten		Grade 1		Grade 2		Grade 3		Grade 4		Grade 5
	Identify and compare measurable attributes	Identify the attributes of a single object that can be measured such as length, volume or weight.	Compare and measure the length	Estimate the length of an object to the nearest inch. Measure the length of an object to the			MA.3.M.1 Measure attributes of objects and solve	length of an object, the volume of liquid within a beaker and temperature.	MA.4.M.1 Measure the length of objects and solve	MA.4.M.1.1 Select and use appropriate tools to measure attributes of objects.		MA.5.M.1.1 Solve multi-step real-world problems that involve converting measurement units to equivalent measurements within a single system of
_		MA.K.M.1.2 Directly compare two objects that have an attribute which can be measured in common. Express the comparison using language to describe the difference.		MA 1 M 1 2	problems involving length.	MA.2.M.1.2 Measure the lengths of two objects using the same unit and determine the difference between their measurements.	problems involving measurement.	MA.3.M.1.2 Solve real-world problems involving any of the four operations with whole-number lengths, masses, weights, temperatures or liquid volumes.	problems involving measurement.	MA.4.M.1.2 Convert within a single system of measurement using the units: yards, feet, inches, kilometers, metters, centimeters, millimeters; pounds, ources; kilograms, grams; gallons, quarts, pints, cups; liter, milliliter; and hours, minutes, seconds.	to solve multi-step	measurement.
MENT (M)		MA.K.M.1.3 Express the length of an object, up to 20 units long, as a whole number of lengths by laying non-standard objects end to end with no gaps or overlaps.				MA.2.M.1.3 Solve one- and two-step real-world measurement problems involving addition and subtraction of lengths given in the same units.						
MEASUREMENT				Using analog and digital clocks, tell and write time in hours and half-hours.	MA.2.M.2 Tell time and solve problems involving money.	MA.2.M.2.1 Using analog and digital clocks, tell and write time to the nearest five minutes using a.m. and p.m. appropriately. Express portions of an hour using the fractional terms half an hour, half past, quarter of an hour, quarter after and quarter til.	MA.3.M.2 Tell and write time and solve problems involving time.	the nearest minute using a.m. and p.m. appropriately	MA.4.M.2 Solve problems involving time and money.	MA.4.M.2.1 Solve two-step real-world problems involving distances and intervals of time using any combination of the four operations.	MA.4.M.2 Solve problems involving money.	MA.5.M.2.1 Solve multi-step real-world problems involving mor using decimal notation.
			bills.	MA.1.M.2.2 identify pennies, nickels, dimes and quarters, and express their values using the c symbol. State how many of each coin equal a dollar. MA.1.M.2.3 Find the value of combinations of pennies, nickels and dimes up to one dollar, and the value of combinations of one, five and ten		MA.2.M.2.2 Solve one- and two-step addition and subtraction real- world problems involving either dollar bills within \$100 or coins within 100 using \$ and c symbols appropriately.		MA.4.M.2.2 Solve one- and two-step real-world problems involving elapsed time.		MA.4.M.2.2 Solve one- and two-step addition and subtraction real-world problems involving money using decimal notation.		
				dollar bills up to \$100. Use the ¢ and \$ symbols appropriately.								

	Kindergarten		Grade 1		Grade 2		Grade 3		Grade 4		Grade 5
MA.K.GR.1	MA.K.GR.1.1	MA.1.GR.1	MA.1.GR.1.1	MA.2.GR.1	MA.2.GR.1.1	MA.3.GR.1	MA.3.GR.1.1	MA.4.GR.1	MA.4.GR.1.1	MA.5.GR.1	MA.5.GR.1.1
Identify, compare and	Identify two- and three-dimensional figures regardless of their size or orientation. Figures are limited to circles, triangles,	Identify and analyze	Identify, compare and sort two- and three- dimensional figures based on their defining	Identify and analyze	Identify and draw two-dimensional figures based on their defining attributes. Figures are limited to triangles,	Describe and	Describe and draw points, lines, line segments, rays, intersecting lines, perpendicular lines and parallel	Draw, classify and	Informally explore angles as an attribute of two-dimensional figures. Identify and classify	Classify two-	Classify triangles or quadrilaterals into different categories based on shared defining attributes.
compose two- and	rectangles, squares, spheres, cubes, cones and cylinders.	two- and three-	attributes. Figures are limited to circles, semi-		rectangles, squares, pentagons, hexagons and	identify	lines. Identify these in two-dimensional figures.	measure angles.	angles as acute, right, obtuse, straight or	dimensional figures	Explain why a triangle or quadrilateral would or wo
three-dimensional		dimensional figures	circles, triangles, rectangles, squares, trapezoids, hexagons, spheres, cubes,	figures and identify	octagons.	relationships			reflex.	and three-	not belong to a category.
figures.		based on their	rectangular prisms, cones and cylinders.	lines of symmetry.		between lines and				dimensional figures	
		defining attributes.				classify				based on defining	
	MA.K.GR.1.2		MA.1.GR.1.2		MA.2.GR.1.2	quadrilaterals.	MA.3.GR.1.2		MA.4.GR.1.2	attributes.	MA.5.GR.1.2
	Compare two-dimensional figures based on their similarities,		Sketch two-dimensional figures when given		Categorize two-dimensional figures based on the		Identify and draw quadrilaterals based on their		Estimate angle measures. Using a protractor,		Identify and classify three-dimensional figures into
	differences and positions. Sort two-dimensional figures based on their similarities and differences. Figures are limited to		defining attributes. Figures are limited to triangles, rectangles, squares and hexagons.		number and length of sides, number of vertices, whether they are closed or not and whether the edges		defining attributes. Quadrilaterals include parallelograms, rhombi, rectangles, squares and		measure angles in whole-number degrees and draw angles of specified measure in whole-	1	categories based on their defining attributes. Figur are limited to right pyramids, right prisms, right
	circles, triangles, rectangles and squares.		tiangles, rectangles, squares and nexagons.		are curved or straight.		trapezoids.		number degrees. Demonstrate that angle		circular cylinders, right circular cones and spheres.
									measure is additive.		
	MA.K.GR.1.3		MA.1.GR.1.3		MA.2.GR.1.3		MA.3.GR.1.3		MA.4.GR.1.3		
	Compare three-dimensional figures based on their		Compose and decompose two- and three-		Identify line(s) of symmetry for a two-dimensional		Draw line(s) of symmetry in a two-dimensional figure		Solve real-world and mathematical problems		
	similarities, differences and positions. Sort three-dimensional figures based on their similarities and differences. Figures are		dimensional figures. Figures are limited to semi-circles, triangles, rectangles, squares,		figure.		and identify line-symmetric two-dimensional figures.		involving unknown whole-number angle measures. Write an equation to represent the		
	limited to spheres, cubes, cones and cylinders.		trapezoids, hexagons, cubes, rectangular						unknown.		
			prisms, cones and cylinders.								
i	MA.K.GR.1.4		MA.1.GR.1.4								
1	Find real-world objects that can be modeled by a given two-		Given a real-world object, identify parts that								
	or three-dimensional figure. Figures are limited to circles, triangles, rectangles, squares, spheres, cubes, cones and		are modeled by two- and three-dimensional figures. Figures are limited to semi-circles,								
	cylinders.		triangles, rectangles, squares and hexagons,								
			spheres, cubes, rectangular prisms, cones and cylinders.								
	MA.K.GR.1.5										
	Combine two-dimensional figures to form a given composite										
	Combine two-dimensional figures to form a given composite figure. Figures used to form a composite shape are limited to										
	figure. Figures used to form a composite shape are limited to			MA.2.GR.2	MA.2.GR.2.1	MA.3.GR.2	MA.3.GR.2.1	MA.4.GR.2	MA.4.GR.2.1	<u>MA.5.GR.2</u>	MA.5.GR.2.1
	figure. Figures used to form a composite shape are limited to			Describe perimeter	Explore perimeter as an attribute of a figure by placing	MA.3.GR.2 Solve problems	Explore area as an attribute of a two-dimensional figure by covering the figure with unit squares without	Solve problems	MA.4.GR.2.1 Solve perimeter and area mathematical and real-world problems, including problems with	Find the nerimeter	Find the perimeter and area of a rectangle with
	figure. Figures used to form a composite shape are limited to			Describe perimeter and find the	Explore perimeter as an attribute of a figure by placing unit segments along the boundary without gaps or overlaps. Find perimeters of rectangles by counting unit	Solve problems involving the	Explore area as an attribute of a two-dimensional figure by covering the figure with unit squares without gaps or overlaps. Find areas of rectangles by counting	Solve problems involving the	Solve perimeter and area mathematical and real-world problems, including problems with unknown sides, for rectangles with whole-	Find the perimeter and area of	Find the perimeter and area of a rectangle with
	figure. Figures used to form a composite shape are limited to			Describe perimeter and find the perimeter of	Explore perimeter as an attribute of a figure by placing unit segments along the boundary without gaps or overlaps. Find perimeters of rectangles by counting unit segments.	Solve problems involving the perimeter and area	Explore area as an attribute of a two-dimensional figure by covering the figure with unit squares without gaps or overlaps. Find areas of rectangles by counting	Solve problems involving the perimeter and area	Solve perimeter and area mathematical and real-world problems, including problems with	Find the perimeter and area of rectangles with	Find the perimeter and area of a rectangle with fractional or decimal side lengths using visual mode
	figure. Figures used to form a composite shape are limited to			Describe perimeter and find the	Explore perimeter as an attribute of a figure by placing unit segments along the boundary without gaps or overlaps. Find perimeters of rectangles by counting unit segments.	Solve problems involving the	Explore area as an attribute of a two-dimensional figure by covering the figure with unit squares without gaps or overlaps. Find areas of rectangles by counting	Solve problems involving the	Solve perimeter and area mathematical and real-world problems, including problems with unknown sides, for rectangles with whole- number side lengths. MA.4.GR.2.2	Find the perimeter and area of rectangles with fractional or	Find the perimeter and area of a rectangle with fractional or decimal side lengths using visual mode
	figure. Figures used to form a composite shape are limited to			Describe perimeter and find the perimeter of	Explore perimeter as an attribute of a figure by placing unit segments along the boundary without gaps or overlaps. Find perimeters of rectangles by counting unit segments. MA.2.GR.2.2 Find the perimeter of a polygon with whole-number	Solve problems involving the perimeter and area	Explore area as an attribute of a two-dimensional figure by covering the figure with unit squares without gaps or overlaps. Find areas of rectangles by counting unit squares. MA.3.GR.2.2 Find the area of a rectangle with whole-number side	Solve problems involving the perimeter and area	Solve perimeter and area mathematical and real-world problems, including problems with unknown sides, for rectangles with whole- number side lengths. MA.4.GR.2.2 Solve problems involving rectangles with the	Find the perimeter and area of rectangles with fractional or decimal side	Find the perimeter and area of a rectangle with fractional or decimal side lengths using visual mode
	figure. Figures used to form a composite shape are limited to			Describe perimeter and find the perimeter of	Explore perimeter as an attribute of a figure by placing unit segments along the boundary without gaps or overlaps. Find perimeters of rectangles by counting unit segments. MA.2.GR.2.2	Solve problems involving the perimeter and area	Explore area as an attribute of a two-dimensional figure by covering the figure with unit squares without gaps or overlaps. Find areas of rectangles by counting unit squares. MA.3.GR.2.2	Solve problems involving the perimeter and area	Solve perimeter and area mathematical and real-world problems, including problems with unknown sides, for rectangles with whole- number side lengths. MA.4.GR.2.2	Find the perimeter and area of rectangles with fractional or	Find the perimeter and area of a rectangle with fractional or decimal side lengths using visual mode
	figure. Figures used to form a composite shape are limited to			Describe perimeter and find the perimeter of	Explore perimeter as an attribute of a figure by placing unit segments along the boundary without gaps or overlaps. Find perimeters of rectangles by counting unit segments. MA.2.GR.2.2 Find the perimeter of a polygon with whole-number side lengths. Polygons are limited to triangles,	Solve problems involving the perimeter and area	Explore area as an attribute of a two-dimensional figure by covering the figure with unit squares without gaps or overlaps. Find areas of rectangles by counting unit squares. MA.3.GR.2.2 Find the area of a rectangle with whole-number side lengths using a visual model and a multiplication formula.	Solve problems involving the perimeter and area	Solve perimeter and area mathematical and real-world problems, including problems with unknown sides, for rectangles with whole- number side lengths. MA.4.GR.2.2 Solve problems involving rectangles with the same perimeter and different areas or with	Find the perimeter and area of rectangles with fractional or decimal side	Find the perimeter and area of a rectangle with fractional or decimal side lengths using visual mod
	figure. Figures used to form a composite shape are limited to			Describe perimeter and find the perimeter of	Explore perimeter as an attribute of a figure by placing unit segments along the boundary without gaps or overlaps. Find perimeters of rectangles by counting unit segments. MA.2.GR.2.2 Find the perimeter of a polygon with whole-number side lengths. Polygons are limited to triangles,	Solve problems involving the perimeter and area	Explore area as an attribute of a two-dimensional figure by covering the figure with unit squares without gaps or overlaps. Find areas of rectangles by counting unit squares. MA.3.GR.2.2 Find the area of a rectangle with whole-number side lengths using a visual model and a multiplication formula. MA.3.GR.2.3	Solve problems involving the perimeter and area	Solve perimeter and area mathematical and real-world problems, including problems with unknown sides, for rectangles with whole- number side lengths. MA.4.GR.2.2 Solve problems involving rectangles with the same perimeter and different areas or with	Find the perimeter and area of rectangles with fractional or decimal side	Find the perimeter and area of a rectangle with fractional or decimal side lengths using visual mod
	figure. Figures used to form a composite shape are limited to			Describe perimeter and find the perimeter of	Explore perimeter as an attribute of a figure by placing unit segments along the boundary without gaps or overlaps. Find perimeters of rectangles by counting unit segments. MA.2.GR.2.2 Find the perimeter of a polygon with whole-number side lengths. Polygons are limited to triangles,	Solve problems involving the perimeter and area	Explore area as an attribute of a two-dimensional figure by covering the figure with unit squares without gaps or overlaps. Find areas of rectangles by counting unit squares. MA.3.GR.2.2 Find the area of a rectangle with whole-number side lengths using a visual model and a multiplication formula.	Solve problems involving the perimeter and area	Solve perimeter and area mathematical and real-world problems, including problems with unknown sides, for rectangles with whole- number side lengths. MA.4.GR.2.2 Solve problems involving rectangles with the same perimeter and different areas or with	Find the perimeter and area of rectangles with fractional or decimal side	Find the perimeter and area of a rectangle with fractional or decimal side lengths using visual mod
	figure. Figures used to form a composite shape are limited to			Describe perimeter and find the perimeter of	Explore perimeter as an attribute of a figure by placing unit segments along the boundary without gaps or overlaps. Find perimeters of rectangles by counting unit segments. MA.2.GR.2.2 Find the perimeter of a polygon with whole-number side lengths. Polygons are limited to triangles,	Solve problems involving the perimeter and area	Explore area as an attribute of a two-dimensional figure by covering the figure with unit squares without gaps or overlaps. Find areas of rectangles by counting unit squares. MA.3.GR.2.2 Find the area of a rectangle with whole-number side lengths using a visual model and a multiplication formula. MA.3.GR.2.3 Solve mathematical and real-world problems involving the perimeter and area of rectangles with whole-number side lengths using a visual model and a distance in a visual model and a distance in a visual model and a solve mathematical and real-world problems involving the perimeter and area of real visual model and a distance in a visual model and a visual model a	Solve problems involving the perimeter and area	Solve perimeter and area mathematical and real-world problems, including problems with unknown sides, for rectangles with whole- number side lengths. MA.4.GR.2.2 Solve problems involving rectangles with the same perimeter and different areas or with	Find the perimeter and area of rectangles with fractional or decimal side	Find the perimeter and area of a rectangle with fractional or decimal side lengths using visual mod
	figure. Figures used to form a composite shape are limited to			Describe perimeter and find the perimeter of	Explore perimeter as an attribute of a figure by placing unit segments along the boundary without gaps or overlaps. Find perimeters of rectangles by counting unit segments. MA.2.GR.2.2 Find the perimeter of a polygon with whole-number side lengths. Polygons are limited to triangles,	Solve problems involving the perimeter and area	Explore area as an attribute of a two-dimensional figure by covering the figure with unit squares without gaps or overlaps. Find areas of rectangles by counting unit squares. MA.3.GR.2.2 Find the area of a rectangle with whole-number side lengths using a visual model and a multiplication formula. MA.3.GR.2.3 Solve mathematical and real-world problems involving the perimeter and area of rectangles with	Solve problems involving the perimeter and area	Solve perimeter and area mathematical and real-world problems, including problems with unknown sides, for rectangles with whole- number side lengths. MA.4.GR.2.2 Solve problems involving rectangles with the same perimeter and different areas or with	Find the perimeter and area of rectangles with fractional or decimal side	Find the perimeter and area of a rectangle with fractional or decimal side lengths using visual mode
	figure. Figures used to form a composite shape are limited to			Describe perimeter and find the perimeter of	Explore perimeter as an attribute of a figure by placing unit segments along the boundary without gaps or overlaps. Find perimeters of rectangles by counting unit segments. MA.2.GR.2.2 Find the perimeter of a polygon with whole-number side lengths. Polygons are limited to triangles,	Solve problems involving the perimeter and area	Explore area as an attribute of a two-dimensional figure by covering the figure with unit squares without gaps or overlaps. Find areas of rectangles by counting unit squares. MA.3.GR.2.2 Find the area of a rectangle with whole-number side lengths using a visual model and a multiplication formula. MA.3.GR.2.3 Solve mathematical and real-world problems involving the perimeter and area of rectangles with whole-number side lengths using a visual model and a formula. MA.3.GR.2.4	Solve problems involving the perimeter and area	Solve perimeter and area mathematical and real-world problems, including problems with unknown sides, for rectangles with whole- number side lengths. MA.4.GR.2.2 Solve problems involving rectangles with the same perimeter and different areas or with	Find the perimeter and area of rectangles with fractional or decimal side	Find the perimeter and area of a rectangle with fractional or decimal side lengths using visual mod
	figure. Figures used to form a composite shape are limited to			Describe perimeter and find the perimeter of	Explore perimeter as an attribute of a figure by placing unit segments along the boundary without gaps or overlaps. Find perimeters of rectangles by counting unit segments. MA.2.GR.2.2 Find the perimeter of a polygon with whole-number side lengths. Polygons are limited to triangles,	Solve problems involving the perimeter and area	Explore area as an attribute of a two-dimensional figure by covering the figure with unit squares without gaps or overlaps. Find areas of rectangles by counting unit squares. MA.3.GR.2.2 Find the area of a rectangle with whole-number side lengths using a visual model and a multiplication formula. MA.3.GR.2.3 Solve mathematical and real-world problems involving the perimeter and area of rectangles with whole-number side lengths using a visual model and a formula. MA.3.GR.2.4 Solve mathematical and real-world problems involving the perimeter and area of rectangles with whole-number side lengths using a visual model and a formula.	Solve problems involving the perimeter and area of rectangles.	Solve perimeter and area mathematical and real-world problems, including problems with unknown sides, for rectangles with whole- number side lengths. MA.4.GR.2.2 Solve problems involving rectangles with the same perimeter and different areas or with	Find the perimeter and area of rectangles with fractional or decimal side	Find the perimeter and area of a rectangle with fractional or decimal side lengths using visual mod
	figure. Figures used to form a composite shape are limited to			Describe perimeter and find the perimeter of	Explore perimeter as an attribute of a figure by placing unit segments along the boundary without gaps or overlaps. Find perimeters of rectangles by counting unit segments. MA.2.GR.2.2 Find the perimeter of a polygon with whole-number side lengths. Polygons are limited to triangles,	Solve problems involving the perimeter and area	Explore area as an attribute of a two-dimensional figure by covering the figure with unit squares without gaps or overlaps. Find areas of rectangles by counting unit squares. MA.3.GR.2.2 Find the area of a rectangle with whole-number side lengths using a visual model and a multiplication formula. MA.3.GR.2.3 Solve mathematical and real-world problems involving the perimeter and area of rectangles with whole-number side lengths using a visual model and a formula. MA.3.GR.2.4 Solve mathematical and real-world problems involving the perimeter and area of composite figures composed for non-overlapping rectangles with whole-composite for non-overlapping rectangles with whole-	Solve problems involving the perimeter and area of rectangles.	Solve perimeter and area mathematical and real-world problems, including problems with unknown sides, for rectangles with whole- number side lengths. MA.4.GR.2.2 Solve problems involving rectangles with the same perimeter and different areas or with	Find the perimeter and area of rectangles with fractional or decimal side	Find the perimeter and area of a rectangle with fractional or decimal side lengths using visual mod
	figure. Figures used to form a composite shape are limited to			Describe perimeter and find the perimeter of	Explore perimeter as an attribute of a figure by placing unit segments along the boundary without gaps or overlaps. Find perimeters of rectangles by counting unit segments. MA.2.GR.2.2 Find the perimeter of a polygon with whole-number side lengths. Polygons are limited to triangles,	Solve problems involving the perimeter and area	Explore area as an attribute of a two-dimensional figure by covering the figure with unit squares without gaps or overlaps. Find areas of rectangles by counting unit squares. MA.3.GR.2.2 Find the area of a rectangle with whole-number side lengths using a visual model and a multiplication formula. MA.3.GR.2.3 Solve mathematical and real-world problems involving the perimeter and area of rectangles with whole-number side lengths using a visual model and a formula. MA.3.GR.2.4 Solve mathematical and real-world problems involving the perimeter and area of rectangles with whole-number side lengths using a visual model and a formula.	Solve problems involving the perimeter and area of rectangles.	Solve perimeter and area mathematical and real-world problems, including problems with unknown sides, for rectangles with whole- number side lengths. MA.4.GR.2.2 Solve problems involving rectangles with the same perimeter and different areas or with	Find the perimeter and area of rectangles with fractional or decimal side	Find the perimeter and area of a rectangle with fractional or decimal side lengths using visual mode
	figure. Figures used to form a composite shape are limited to			Describe perimeter and find the perimeter of	Explore perimeter as an attribute of a figure by placing unit segments along the boundary without gaps or overlaps. Find perimeters of rectangles by counting unit segments. MA.2.GR.2.2 Find the perimeter of a polygon with whole-number side lengths. Polygons are limited to triangles,	Solve problems involving the perimeter and area	Explore area as an attribute of a two-dimensional figure by covering the figure with unit squares without gaps or overlaps. Find areas of rectangles by counting unit squares. MA.3.GR.2.2 Find the area of a rectangle with whole-number side lengths using a visual model and a multiplication formula. MA.3.GR.2.3 Solve mathematical and real-world problems involving the perimeter and area of rectangles with whole-number side lengths using a visual model and a formula. MA.3.GR.2.4 Solve mathematical and real-world problems involving the perimeter and area of composite figures composed for non-overlapping rectangles with whole-composite for non-overlapping rectangles with whole-	Solve problems involving the perimeter and area of rectangles.	Solve perimeter and area mathematical and real-world problems, including problems with unknown sides, for rectangles with whole- number side lengths. MA.4.GR.2.2 Solve problems involving rectangles with the same perimeter and different areas or with	Find the perimeter and area of rectangles with fractional or decimal side	Find the perimeter and area of a rectangle with fractional or decimal side lengths using visual mod and formulas. MA.5.GR.3.1
	figure. Figures used to form a composite shape are limited to			Describe perimeter and find the perimeter of	Explore perimeter as an attribute of a figure by placing unit segments along the boundary without gaps or overlaps. Find perimeters of rectangles by counting unit segments. MA.2.GR.2.2 Find the perimeter of a polygon with whole-number side lengths. Polygons are limited to triangles,	Solve problems involving the perimeter and area	Explore area as an attribute of a two-dimensional figure by covering the figure with unit squares without gaps or overlaps. Find areas of rectangles by counting unit squares. MA.3.GR.2.2 Find the area of a rectangle with whole-number side lengths using a visual model and a multiplication formula. MA.3.GR.2.3 Solve mathematical and real-world problems involving the perimeter and area of rectangles with whole-number side lengths using a visual model and a formula. MA.3.GR.2.4 Solve mathematical and real-world problems involving the perimeter and area of composite figures composed for non-overlapping rectangles with whole-composite for non-overlapping rectangles with whole-	Solve problems involving the perimeter and area of rectangles.	Solve perimeter and area mathematical and real-world problems, including problems with unknown sides, for rectangles with whole- number side lengths. MA.4.GR.2.2 Solve problems involving rectangles with the same perimeter and different areas or with	Find the perimeter and area of rectangles with fractional or decimal side lengths.	Find the perimeter and area of a rectangle with fractional or decimal side lengths using visual mod and formulas. MA.5.GR.3.1 Explore volume as an attribute of three-dimension
	figure. Figures used to form a composite shape are limited to			Describe perimeter and find the perimeter of	Explore perimeter as an attribute of a figure by placing unit segments along the boundary without gaps or overlaps. Find perimeters of rectangles by counting unit segments. MA.2.GR.2.2 Find the perimeter of a polygon with whole-number side lengths. Polygons are limited to triangles,	Solve problems involving the perimeter and area	Explore area as an attribute of a two-dimensional figure by covering the figure with unit squares without gaps or overlaps. Find areas of rectangles by counting unit squares. MA.3.GR.2.2 Find the area of a rectangle with whole-number side lengths using a visual model and a multiplication formula. MA.3.GR.2.3 Solve mathematical and real-world problems involving the perimeter and area of rectangles with whole-number side lengths using a visual model and a formula. MA.3.GR.2.4 Solve mathematical and real-world problems involving the perimeter and area of composite figures composed for non-overlapping rectangles with whole-composite for non-overlapping rectangles with whole-	Solve problems involving the perimeter and area of rectangles.	Solve perimeter and area mathematical and real-world problems, including problems with unknown sides, for rectangles with whole- number side lengths. MA.4.GR.2.2 Solve problems involving rectangles with the same perimeter and different areas or with	Find the perimeter and area of rectangles with fractional or decimal side lengths.	Find the perimeter and area of a rectangle with fractional or decimal side lengths using visual mod and formulas. MA.5.GR.3.1 Explore volume as an attribute of three-dimension figures by packing them with unit cubes without g
	figure. Figures used to form a composite shape are limited to			Describe perimeter and find the perimeter of	Explore perimeter as an attribute of a figure by placing unit segments along the boundary without gaps or overlaps. Find perimeters of rectangles by counting unit segments. MA.2.GR.2.2 Find the perimeter of a polygon with whole-number side lengths. Polygons are limited to triangles,	Solve problems involving the perimeter and area	Explore area as an attribute of a two-dimensional figure by covering the figure with unit squares without gaps or overlaps. Find areas of rectangles by counting unit squares. MA.3.GR.2.2 Find the area of a rectangle with whole-number side lengths using a visual model and a multiplication formula. MA.3.GR.2.3 Solve mathematical and real-world problems involving the perimeter and area of rectangles with whole-number side lengths using a visual model and a formula. MA.3.GR.2.4 Solve mathematical and real-world problems involving the perimeter and area of composite figures composed for non-overlapping rectangles with whole-composite for non-overlapping rectangles with whole-	Solve problems involving the perimeter and area of rectangles.	Solve perimeter and area mathematical and real-world problems, including problems with unknown sides, for rectangles with whole- number side lengths. MA.4.GR.2.2 Solve problems involving rectangles with the same perimeter and different areas or with	Find the perimeter and area of rectangles with fractional or decimal side lengths.	Find the perimeter and area of a rectangle with fractional or decimal side lengths using visual models and formulas.
	figure. Figures used to form a composite shape are limited to			Describe perimeter and find the perimeter of	Explore perimeter as an attribute of a figure by placing unit segments along the boundary without gaps or overlaps. Find perimeters of rectangles by counting unit segments. MA.2.GR.2.2 Find the perimeter of a polygon with whole-number side lengths. Polygons are limited to triangles,	Solve problems involving the perimeter and area	Explore area as an attribute of a two-dimensional figure by covering the figure with unit squares without gaps or overlaps. Find areas of rectangles by counting unit squares. MA.3.GR.2.2 Find the area of a rectangle with whole-number side lengths using a visual model and a multiplication formula. MA.3.GR.2.3 Solve mathematical and real-world problems involving the perimeter and area of rectangles with whole-number side lengths using a visual model and a formula. MA.3.GR.2.4 Solve mathematical and real-world problems involving the perimeter and area of composite figures composed for non-overlapping rectangles with whole-composite for non-overlapping rectangles with whole-	Solve problems involving the perimeter and area of rectangles.	Solve perimeter and area mathematical and real-world problems, including problems with unknown sides, for rectangles with whole- number side lengths. MA.4.GR.2.2 Solve problems involving rectangles with the same perimeter and different areas or with	Find the perimeter and area of rectangles with fractional or decimal side lengths. MA.5.GR.3 Solve problems involving the	Find the perimeter and area of a rectangle with fractional or decimal side lengths using visual models and formulas.
	figure. Figures used to form a composite shape are limited to			Describe perimeter and find the perimeter of	Explore perimeter as an attribute of a figure by placing unit segments along the boundary without gaps or overlaps. Find perimeters of rectangles by counting unit segments. MA.2.GR.2.2 Find the perimeter of a polygon with whole-number side lengths. Polygons are limited to triangles,	Solve problems involving the perimeter and area	Explore area as an attribute of a two-dimensional figure by covering the figure with unit squares without gaps or overlaps. Find areas of rectangles by counting unit squares. MA.3.GR.2.2 Find the area of a rectangle with whole-number side lengths using a visual model and a multiplication formula. MA.3.GR.2.3 Solve mathematical and real-world problems involving the perimeter and area of rectangles with whole-number side lengths using a visual model and a formula. MA.3.GR.2.4 Solve mathematical and real-world problems involving the perimeter and area of composite figures composed for non-overlapping rectangles with whole-composite for non-overlapping rectangles with whole-	Solve problems involving the perimeter and area of rectangles.	Solve perimeter and area mathematical and real-world problems, including problems with unknown sides, for rectangles with whole- number side lengths. MA.4.GR.2.2 Solve problems involving rectangles with the same perimeter and different areas or with	Find the perimeter and area of rectangles with fractional or decimal side lengths. MA.5.GR.3 Solve problems involving the volume of right	Find the perimeter and area of a rectangle with fractional or decimal side lengths using visual mode and formulas. MA.5.GR.3.1 Explore volume as an attribute of three-dimension figures by packing them with unit cubes withouts gar Find the volume of a right rectangular prism with whole-number side lengths by counting unit cubes.
	figure. Figures used to form a composite shape are limited to			Describe perimeter and find the perimeter of	Explore perimeter as an attribute of a figure by placing unit segments along the boundary without gaps or overlaps. Find perimeters of rectangles by counting unit segments. MA.2.GR.2.2 Find the perimeter of a polygon with whole-number side lengths. Polygons are limited to triangles,	Solve problems involving the perimeter and area	Explore area as an attribute of a two-dimensional figure by covering the figure with unit squares without gaps or overlaps. Find areas of rectangles by counting unit squares. MA.3.GR.2.2 Find the area of a rectangle with whole-number side lengths using a visual model and a multiplication formula. MA.3.GR.2.3 Solve mathematical and real-world problems involving the perimeter and area of rectangles with whole-number side lengths using a visual model and a formula. MA.3.GR.2.4 Solve mathematical and real-world problems involving the perimeter and area of composite figures composed for non-overlapping rectangles with whole-composite for non-overlapping rectangles with whole-	Solve problems involving the perimeter and area of rectangles.	Solve perimeter and area mathematical and real-world problems, including problems with unknown sides, for rectangles with whole- number side lengths. MA.4.GR.2.2 Solve problems involving rectangles with the same perimeter and different areas or with	Find the perimeter and area of rectangles with fractional or decimal side lengths. MA.5.GR.3 Solve problems involving the volume of right	Find the perimeter and area of a rectangle with fractional or decimal side lengths using visual mod and formulas. MA.5.GR.3.1 Explore volume as an attribute of three-dimension figures by packing them with unit cubes without graphical prism with whole-number side lengths by counting unit cubes MA.5.GR.3.2
	figure. Figures used to form a composite shape are limited to			Describe perimeter and find the perimeter of	Explore perimeter as an attribute of a figure by placing unit segments along the boundary without gaps or overlaps. Find perimeters of rectangles by counting unit segments. MA.2.GR.2.2 Find the perimeter of a polygon with whole-number side lengths. Polygons are limited to triangles,	Solve problems involving the perimeter and area	Explore area as an attribute of a two-dimensional figure by covering the figure with unit squares without gaps or overlaps. Find areas of rectangles by counting unit squares. MA.3.GR.2.2 Find the area of a rectangle with whole-number side lengths using a visual model and a multiplication formula. MA.3.GR.2.3 Solve mathematical and real-world problems involving the perimeter and area of rectangles with whole-number side lengths using a visual model and a formula. MA.3.GR.2.4 Solve mathematical and real-world problems involving the perimeter and area of composite figures composed for non-overlapping rectangles with whole-composite for non-overlapping rectangles with whole-	Solve problems involving the perimeter and area of rectangles.	Solve perimeter and area mathematical and real-world problems, including problems with unknown sides, for rectangles with whole- number side lengths. MA.4.GR.2.2 Solve problems involving rectangles with the same perimeter and different areas or with	Find the perimeter and area of rectangles with fractional or decimal side lengths. MA.5.GR.3 Solve problems involving the volume of right	Find the perimeter and area of a rectangle with fractional or decimal side lengths using visual mod and formulas. MA.5.GR.3.1 Explore volume as an attribute of three-dimension figures by packing them with unit cubes without gg Find the volume of a right rectangular prism with whole-number side lengths by counting unit cubes

	MA.5.GR.3.3 Solve real-world problems involving the volume of right rectangular prisms, including problems with an unknown edge length, with vhole-number edge lengths using a visual model or a formula. Write an equation with a variable for the unknown to represent the problem.
MA.5.GR.4	MA.5.GR.4.1
Plot points and	Identify the origin and axes in the coordinate system. Plot and label ordered pairs in the first quadrant of
represent problems	the coordinate plane.
on the coordinate	
pluite.	MA.5.GR.4.2
	Represent mathematical and real-world problems by
	plotting points in the first quadrant of the coordinate plane and interpret coordinate values of points in the
	context of the situation.

		Kindergarten		Grade 1		Grade 2		Grade 3		Grade 4		Grade 5
(dD)	MA.1.DP.1	MA.K.DP.1.1	MA.1.DP.1		MA.2.DP.1	MA.2.DP.1.1	MA.3.DP.1	MA.3.DP.1.1	MA.4.DP.1	MA.4.DP.1.1	MA.5.DP.1	MA.5.DP.1.1
9	Develop an	Collect and sort objects into categories and compare the categories by counting the objects in each category. Report	Collect, represent	Collect data into categories and represent the results using tally marks or pictographs.		Collect, categorize and represent data using tally marks, tables, pictographs or bar graphs. Use	Collect, represent	Collect and represent numerical and categorical data with whole-number values using tables, scaled	Collect, represent	Collect and represent numerical data, including fractional values, using tables, stem-	Collect, represent	Collect and represent numerical data, including fractional and decimal values, using tables, line graphs
≥		the results verbally, with a written numeral or with drawings.	and interpret data	results using using marks of precographs.	represent and	appropriate titles, labels and units.	and interpret	pictographs, scaled bar graphs or line plots. Use	and interpret data	and-leaf plots or line plots.	and interpret data	or line plots.
5	collecting, representing		using pictographs		interpret data using		numerical and	appropriate titles, labels and units.	and find the mode,		and find the mean,	
BIL	and comparing data.		and tally marks.		appropriate titles,		categorical data.		median and range		mode, median or	
PROBA					labels and units.				of a data set.		range of a data set.	
ö												
Ř				MA.1.DP.1.2		MA.2.DP.1.2		MA.3.DP.1.2		MA.4.DP.1.2		MA.5.DP.1.2
æ				Interpret data represented with tally marks or pictographs by calculating the total number of		Interpret data represented with tally marks, tables, pictographs or bar graphs including solving addition		Interpret data with whole-number values represented with tables, scaled pictographs, circle graphs, scaled		Determine the mode, median or range to interpret numerical data including fractional		Interpret numerical data, with whole-number values, represented with tables or line plots by determining
				data points and comparing the totals of		and subtraction problems.		bar graphs or line plots by solving one- and two-step		values, represented with tables, stem-and-leaf		the mean, mode, median or range.
SIS				different categories.				problems.		plots or line plots.		
A												
ANA										MA.4.DP.1.3		
										Solve real-world problems involving numerical		
E										data.		
DATA												
	1											