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	
	inderstanding for	objects in that group and represent the number of objects	sequences and	backwards within 120 by ones. Skip count by	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	whole number changes if the digit moves one	place value of multi-	number with decimals to the thousandths changes if	
Ì	counting using objects	rearrangement of that group without recounting.	understand the	25 to 20 and by 55 to 100.	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 the second se			alloca value of two		digit numbers.		digit numbers.		numbers.		desimals to the		
ľ	li d Set.	MA.K.NSO.1.2	place value of two-	MA.1.NSO.1.2		MA.2.NSO.1.2		MA.3.NSO.1.2		MA.4.NSO.1.2	the second state and second	MA.5.NSO.1.2	
		Given a number from 0 to 20, count out that many objects.	aigit numbers.	Read numbers from 0 to 100 written in		Compose and decompose three-digit numbers in multiple ways using hundreds, tags and append		Compose and decompose four-digit numbers in multiple wave using theursands, hundreds, tags and		Read and write multi-digit whole numbers	thousandths place.	Read and write multi-digit numbers with decimals to	
				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.				10,000.		numbers up to 1,000,000.		decimals to the thousandths in multiple ways using	
				Demonstrate each composition or								the values of the digits in each place. Demonstrate the	
				expressions or equations.								drawings and expressions or equations.	
		MA.K.NSU.1.4		MA.1.NSO.1.4		MA.2.NSO.1.4 Reund whole numbers from 0 to 100 to the peacest 10		MA.3.NSU.1.4 Bound whole numbers from 0 to 1 000 to the people of		MA.4.NSU.1.4 Bound whole numbers from 0 to 10 000 to		MA.5.NSO.1.4	
		using the terms less than, equal to or greater than.		100.		Nound whole numbers noin o to 100 to the nearest 10.		10 or 100.		the nearest 10, 100 or 1,000.		decimals up to the thousandths.	
-										MA.4.NSO.1.5		MA.5.NSO.1.5	
2										Plot, order and compare decimals up to the		Round multi-digit numbers with decimals to the	
ź										hundredths.		thousandths to the nearest hundredth, tenth or whole	
5 h		MA K NSO 2 1	MA 1 NSO 2	MA 1 NSO 2 1	MA 2 NSO 2	MA 2 NSO 2 1	MA 3 NSO 2	MA 3 NSO 2 1	MA 4 NSO 2	MA 4 NSO 2 1	MA 5 NSO 2	MA 5 NSO 2 1	
ź	Recite number names	Recite the number names to 100 by ones and by tens. Starting	Develop an	Recall addition facts with sums to 10 and	Add and subtract	Recall addition facts with sums to 20 and related	Add and subtract	Add and subtract multi-digit whole numbers including	Build an	Recall multiplication facts with factors up to	Add subtract	Multiply multi-digit whole numbers including using a	
2	concentially within 100	at a given number, count forward within 100 and backward	understanding of	related subtraction facts with automaticity.	two and throo digit	subtraction facts with automaticity.	multi digit wholo	using a standard algorithm with procedural fluency.	understanding of	12 and related division facts with	multiply and divide	standard algorithm with procedural fluency.	
	sequentially within 100	within 20.	addition and		whole numbers		nuni-uigit whole		understanding of	automaticity.	multi disit		
	and develop an	MA.K.NSO.2.2		MA.1.NSO.2.2	whole numbers.	MA.2.NSO.2.2	numbers. Bulla an	MA.3.NSO.2.2	operations with	MA.4.NSO.2.2	multi-algit	MA.5.NSO.2.2	
	inderstanding 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	
5	/alue.	and a group of ones, with objects, drawings and expressions	operations with one-	20, and subtract using related facts with		hundred more and one hundred less than a given three- digit number	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.			renability.		fractions.	
0			numbers.										
5		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		Identify the number that is one more, one		Add two whole numbers with sums up to 100 with		Multiply a one-digit whole number by a multiple of		Multiply two whole numbers, each up to two		Add and subtract multi-digit numbers with decimals to	
กี		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.		with procedural fluency.	
۲ I						procedural reliability.							
				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		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		Divide a whole number up to four digits by a		Explore the multiplication and division of multi-digit	
5				and a one-digit number with sums to 100.		from a whole number, each no larger than 1,000.		using related facts with procedural reliability.		reliability. Represent remainders as fractional		estimation, rounding and place value.	
2										parts of the divisor.			
				MA.1.NSO.2.5						MA.4.NSO.2.5		MA.5.NSO.2.5	
				Explore subtraction of a one-digit number from a two-digit number.						Explore the multiplication and division of multi- digit whole numbers using estimation.		Multiply and divide a multi-digit number with decimals to the tenths by one-tenth and one-	
										rounding and place value.		hundredth with procedural reliability.	
										MA.4.NSU.2.6			
										one-tenth less, one-hundredth more and one-			
										hundredth less than a given number.			
										MAA A NEO 2 7			
										IVIA.4.INSU.2.7			
										digit numbers with decimals to the			
										hundredths.			
1	MA.K.NSO.3	MA.K.NSO.3.1											
[Develop an	Explore addition of two whole numbers from 0 to 10, and											
ı	understanding of	related subtraction facts.											
	addition and	MA K NSO 3 2											
	subtraction operations	Add two one-digit whole numbers with sums from 0 to 10 and											
	with one-digit whole	subtract using related facts with procedural reliability.											
	numbers												
ſ	iumpers.												

	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 understanding of fractions by	Partition circles and rectangles into two and four equal-sized parts. Name the parts of the whole using appropriate language including halves or fourths.	Develop an understanding of fractions	Partition circles and rectangles into two, three or four equal-sized parts. Name the parts using appropriate language, and describe the whole as two halves, three thirds or four fourths.	Understand fractions as	Represent and interpret unit fractions in the form 1/n as the quantity formed by one part when a whole is partitioned into n equal parts.	Develop an understanding of the relationship	Model and express a fraction, including mixed numbers and fractions greater than one, with the denominator 10 as an equivalent fraction with the denominator 100.	Interpret a fraction as an answer to a division problem	Given a mathematical or real-world problem, represent the division of two whole numbers as a fraction.
		partitioning shapes into halves and fourths.		indectoris.	MA.2.FR.1.2 Partition rectangles into two, three or four equal-sized parts in two different ways showing that equal-sized parts of the same whole may have different shapes.	represent fractions.	MA.3.FR.1.2 Represent and interpret fractions, including fractions greater than one, in the form of m/n as multiples of a unit fraction.	between different fractions and the relationship between fractions	MA.4.FR.1.2 Use decimal notation to represent fractions with denominators of 10 or 100, including mixed numbers and fractions greater than 1,		
							MA.3.FR.1.3	and decimals.	of 10 or 100 to represent decimals.		
							Read and write fractions, including fractions greater than one, using standard form, numeral-word form and word form.		Identify and generate equivalent fractions, including fractions greater than one. Describe how the numerator and denominator are affected when the equivalent fraction is created.		
NS (FR)									MA.4.FR.1.4 Plot, order and compare fractions, including mixed numbers and fractions greater than one, with different numerators and different denominators.		
<u> </u>						MA.3.FR.2	MA.3.FR.2.1	MA.4.FR.2	MA.4.FR.2.1	MA.5.FR.2	MA.5.FR.2.1
5						Order and compare	Plot, order and compare fractional numbers with the	Build a foundation	Decompose a fraction, including mixed	Perform operations	Add and subtract fractions with unlike denominators,
₹ I						fractions and	same numerator or the same denominator.	of addition,	a sum of fractions with the same denominator	with fractions.	with procedural reliability.
Ξ						identify equivalent		subtraction and	in multiple ways. Demonstrate each		
						fractions.		multiplication	equations.		
								operations with			
							MA, 3, FK.2.2 Identify equivalent fractions and explain why they are equivalent.	fractions.	MA.4.FK.2.2 Add and subtract fractions with like denominators, including mixed numbers and fractions greater than one, with procedural reliability.		IVIA.5.FK.2.2 Extend previous understanding of multiplication to multiply a fraction by a fraction, including mixed numbers and fractions greater than 1, with procedural reliability.
									MA.4.FR.2.3 Explore the addition of a fraction with denominator of 10 to a fraction with denominator of 100 using equivalent fractions.		MA.5.FR.2.3 When multiplying a given number by a fraction less than 1 or a fraction greater than 1, predict and explain the relative size of the product to the given number without calculating.
									MA.4.FR.2.4 Extend previous understanding of multiplication to explore the multiplication of a fraction by a whole number or a whole number by a fraction.		MA.S.FR.2.4 Extend previous understanding of division to explore the division of a unit fraction by a whole number and a whole number by a unit fraction.

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
	Represent and solve	For any number from 1 to 9, find the number that makes 10	Solve addition	Apply properties of addition to find a sum of	Solve addition	Solve one- and two-step addition and subtraction real-	Solve multiplication	Apply the distributive property to multiply a one-digit	Represent and solve	Solve real-world problems involving	Solve problems	Solve multi-step real-world problems involving any
	addition problems with	when added to the given number.	problems with sums	three or more whole numbers.	problems with sums	world problems.	and division	number and two-digit number. Apply properties of multiplication to find a product of one-digit whole	problems involving	multiplication and division of whole numbers	involving the four	combination of the four operations with whole numbers, including problems in which remainders
	sums between 0 and 10		between 0 and 20		between 0 and 100		problems	numbers.	the four operations	be interpreted within the context.	operations with	must be interpreted within the context.
	and subtraction		and subtraction		and related		problembi		with whole		whole numbers and	
	problems using related	MA.K.AR.1.2	problems using	MA.1.AR.1.2	subtraction			MA.3.AR.1.2	numbers and	MA.4.AR.1.2	fractions	MA.5.AR.1.2
	footo	Given a number from 0 to 10, find the different ways it can be	pioneriis using	Solve addition and subtraction real-world	subtraction			Solve one- and two-step real-world problems	freetiene	Solve real-world problems involving addition	inactions.	Solve real-world problems involving the addition,
	Tacts.	represented as the sum of two numbers.	related lacts.	to represent the problem.	problems.			involving any of four operations with whole numbers.	Tractions.	and subtraction of fractions with like denominators, including mixed numbers and		subtraction or multiplication of fractions, including mixed numbers and fractions greater than 1.
										fractions greater than one.		
		MA.K.AR.1.3								MA.4.AR.1.3		MA.5.AR.1.3
		Solve addition and subtraction real-world problems using								Solve real-world problems involving		Solve real-world problems involving division of a unit
		objects, drawings or equations to represent the problem.								multiplication of a fraction by a whole number or a whole number by a fraction.		fraction by a whole number and a whole number by a unit fraction.
										or a whole number by a naction.		
	MA.K.AR.2	MA.K.AR.2.1	MA.1.AR.2	MA.1.AR.2.1	MA.2.AR.2	MA.2.AR.2.1	MA.3.AR.2	MA.3.AR.2.1	MA.4.AR.2	MA.4.AR.2.1	MA.5.AR.2	MA.5.AR.2.1
	Develop an	Explain why addition or subtraction equations are true	Develop an	Restate a subtraction problem as a missing	Demonstrate an	Determine and explain whether equations involving	Develop an	Restate a division problem as a missing factor	Demonstrate an	Determine and explain whether an equation	Demonstrate an	Translate written real-world and mathematical
R I	understanding of the	using objects or drawings.	understanding of	addend problem using the relationship	understanding of	addition and subtraction are true or false.	understanding of	problem using the relationship between multiplication	understanding of	involving any of the four operations with	understanding of	descriptions into numerical expressions and numerical
۲	equal sign		the relationship	between addition and subtraction.	equality and		equality and	and division.	equality and	whole numbers is true or faise.	equality the order	expressions into written mathematical descriptions.
(ŋ	equal sign.		hetween addition		addition and		multiplication and		operations with		of operations and	
ž			and subtraction	MA 1 AP 2 2	subtraction	MA 2 AP 2 2	division	MA 2 AP 2 2	whole numbers	MA 4 AP 2 2	on operations and	
7				Determine and explain if equations involving	Subtraction.	Determine the unknown whole number in an addition	uivision.	Determine and explain whether an equation involving	whole numbers.	Given a mathematical or real-world context.	equivalent	Evaluate multi-step numerical expressions using order
ō				addition or subtraction are true or false.		or subtraction equation, relating three or four whole		multiplication or division is true or false.		write an equation involving multiplication or	numericai	of operations.
S						numbers, with the unknown in any position.				division to determine the unknown whole	expressions.	
Ш										number with the unknown in any position.		
2												
9				MA.1.AR.2.3				MA.3.AR.2.3				MA.5.AR.2.3
₩				Determine the unknown whole number in an addition or subtraction equation, relating				Determine the unknown whole number in a multiplication or division equation, relating three				Determine and explain whether an equation involving
B				three whole numbers, with the unknown in				whole numbers, with the unknown in any position.				any of the four operations is that of fuse.
H H				any position.								
Ĕ												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
					MA 2 45 2	NAA 0 AD 0 4		MA 2 AD 2 4				
					IVIA.Z.AK.3	IVIA.2.AR.3.1 Represent an even number using two equal groups or	MA.3.AK.3	IVIA.3.AK.3.1	MA.4.AR.3	MA.4.AR.3.1 Determine factor pairs for a whole number	MA.5.AK.3	MA.5.AR.3.1 Given a numerical pattern, identify and write a rule
					Develop an	two equal addends. Represent an odd number using	Identify numerical	1 to 1,000 is even or odd.	Recognize	from 0 to 144. Determine whether a whole	Analyze patterns	that can describe the pattern as an expression.
					understanding of	two equal groups with one left over or two equal	patterns, including		numerical patterns,	number from 0 to 144 is prime, composite or	and relationships	
					multiplication.	addends plus 1.	multiplicative		including patterns	neither.	between inputs and	
						IVIA.Z.AR.3.Z	patterns.	MA.3.AR.3.2 Determine whether a whole number from 1 to 144 is	that follow a given	MA.4.AR.3.2	outputs.	MA.5.AR.3.2 Cheep a subject of a numerical pattern, use a two
						objects in a collection of equal groups. Represent the		a multiple of a given one-digit number.	rule.	pattern that follows a given rule.		column table to record the inputs and outputs.
						total number of objects using rectangular arrays and						
						equations.						
								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	
	MA.K.M.1 Identify and compare measurable attributes of objects.	MA.K.M.1.1 identify the attributes of a single object that can be measured such as length, volume or weight. 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 Compare and measure the length of objects.	MA.1.M.1.1 Estimate the length of an object to the nearest inch. Measure the length of an object to the nearest inch or centimeter. MA.1.M.1.2 Compare and order the length of up to three objects using direct and indirect comparison.	MA.2.M.1 Measure the length of objects and solve problems involving length.	MA.2.M.1.1 Estimate and measure the length of an object to the nearest inch, foot, yard, centimeter or meter by selecting and using an appropriate tool. MA.2.M.1.2 Measure the lengths of two objects using the same unit and determine the difference between their measurements.	MA.3.M.1 Measure attributes of objects and solve problems involving measurement.	MA.3.M.1.1 Select and use appropriate tools to measure the length of an object, the volume of liquid within a beaker and temperature. 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.	MA.4.M.1 Measure the length of objects and solve problems involving measurement.	MA.4.M.1.1 Select and use appropriate tools to measure attributes of objects. MA.4.M.1.2 Convert within a single system of measurement using the units: yards, feet, inches; kilometers, meters, contentioneters, grams; galons, quarts, pints, cups; liter, milliliter; and hours, minutes, seconds.	MA.5.M.1 Convert measurement units to solve multi-sten	MA.5.M.1.1 Solve multi-step real-world problems that involve converting measurement units to equivalent measurements within a single system of measurement.	
EMENT (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.							
MEASURE			MA.1.M.2 Tell time and identify the value of coins and combinations of coins and dollar bills.	MA.1.M.2.1 Using analog and digital clocks, tell and write time in hours and half-hours. 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 dollar bills up to \$100. Use the C and \$ symbols appropriately.	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.2.M.2.2 Solve one- and two-step addition and subtraction real- world problems involving either dollar bills within \$100 or coins within 100c using \$ and c symbols appropriately.	MA.3.M.2 Tell and write time and solve problems involving time.	MA.3.M.2.1 Using analog and digital clocks tell and write time to the nearest minute using a.m. and p.m. appropriately. MA.4.M.2.2 Solve one- and two-step real-world problems involving elapsed time.	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.2.2 Solve one- and two-step addition and subtraction real-world problems involving money using decimal notation.	MA.4.M.2 Solve problems involving money.	MA.5.M.2.1 Solve multi-step real-world problems involving money using decimal notation.	

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

	MA.5.GR.3.3 Solve real-world problems involving the volume of right rectangular prisms, including problems with an unknown edge length, with whole-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.
represent problems	the coordinate plane.
on the coordinate	
plane.	MA.5.GR.4.2
	Represent mathematical and real-world problems by
	plane and interpret coordinate values of points in the
	context of the situation.

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