Mathseeds Lessons and Florida's B.E.S.T Standards Mathematics



	K	INDERGARTEN		Mathseeds Lesson #			Additional Resources		
				Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency	Assessment	
Domain	Standard	Benchmark	Code	Online Lesson, Printable Resources, and Problem Solving Tasks	End-of-lesson Quiz	Critical Thinking and Problem Solving Interactives	Driving Tests (DT) Mental Minute (MM)	Printable Achievement Standards Assessment	
	Develop an understanding for counting using objects in a set.	Given a group of up to 20 objects, count the number of objects in that group and represent the number of objects with a written numeral. State the number of objects in a rearrangement of that group without recounting.	MA.K.NSO.1.1				DT Kindergarten Number 1-4, 6, 7, 9, 10, 13-19, 24, 25	Kindergarten Number Test 1-4, 6	
		Given a number from 0 to 20, count out that many objects.	MA.K.NSO.1.2	1, 2, 3, 5, 7, 10, 11, 12, 14, 16, 17, 18,	19, 20, 22, 33,				
		Identify positions of objects within a sequence using the words "first," "second," "third," "fourth" or "fifth".	MA.K.NSO.1.3	41, 43, 45, 46, 48, 50, 63					
		Compare the number of objects from 0 to 20 in two groups using the terms less than, equal to or greater than.	MA.K.NSO.1.4						
Number Sense and Operations	Recite number names	Recite the number names to 100 by ones and by tens. Starting at a given number, count forward within 100 and backward within 20.	MA.K.NSO.2.1	21		0 0 0 0 0 0	DT Kindergarten Number 5		
.,	sequentially within 100 and develop an understanding	Represent whole numbers from 10 to 20, using a unit of ten and a group of ones, with objects, drawings and expressions or equations.	MA.K.NSO.2.2				DT Kindergarten Number 11, 12		
	for place value.	Locate, order and compare numbers from 0 to 20 using the number line and terms less than, equal to or greater than.	MA.K.NSO.2.3	25, 28, 56			DT Kindergarten Number 8, 20		
	Bevelop all allacistalians	Explore addition of two whole numbers from 0 to 10, and related subtraction facts.	MA.K.NSO.3.1					Kindergarten Operations Test 1, 2, 4	
	of addition and subtraction operations with one-digit whole numbers.	Add two one-digit whole numbers with sums from 0 to 10 and subtract using related facts with procedural reliability.	MA.K.NSO.3.2	24, 30, 32, 34, 40, 47, 49		30, 40, 41, 46, 47			
	Represent and solve addition problems with sums between 0 and 10 and subtraction problems using related facts.	For any number from 1 to 9, find the number that makes 10 when added to the given number.	MA.K.AR.1.1			19, 31, 34, 36, 43	DT Kindergarten Operations 6, 7, 9-12, 14, 17, 19, 23, 25		
Algebraic		Given a number from 0 to 10, find the different ways it can be represented as the sum of two numbers.	MA.K.AR.1.2						
Reasoning		Solve addition and subtraction real-world problems using objects, drawings or equations to represent the problem.	MA.K.AR.1.3	31, 32, 36					
	Develop an understanding of the equal sign.	Explain why addition or subtraction equations are true using objects or drawings.	MA.K.AR.2.1			•			
	Identify and compare measurable attributes of objects	Identify the attributes of a single object that can be measured such as length. Directly compare two objects that have an attribute which can be measured in common. Express the comparison using language to describe the differences. 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.K.M.1.1 MA.K.M.1.2 MA.K.M.1.3	13, 26		•		Kindergarten Measurement Test 1-3	
Measurement		Identify the attributes of a single object that can be measured such as volume. Directly compare two objects that have an attribute which can be measured in common. Express the comparison using language to describe the differences.	MA.K.M.1.1 MA.K.M.1.2	38, 89, 116		38	DT Kindergarten Measurement 15, 16, 20 DT Grade 1 Measurement 11, 17-19	Kindergarten Measurement Test 5 Grade 1 Measurement: Length and Capacity Test 6, 7 Grade 2 Measurement: Informal Units Test 4, 5	
		Identify the attributes of a single object that can be measured such as weight. Directly compare two objects that have an attribute which can be measured in common. Express the comparison using language to describe the differences.	MA.K.M.1.1 MA.K.M.1.2	29, 73, 135		DT Kindergarten Measurement 7, 8, 1		Kindergarten Measurement Test 4 Grade 2 Measurement: Informal Units Test 6, 7	
Geometric Reasoning	Identify, compare and compose two- and three- dimensional figures.	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.1.1						
		Compare two-dimensional figures based on their similarities, differences and positions. Sort two-dimensional figures based on their similiarities and differences. Figures are limited circles, triangles, rectangles and squares.	MA.K.GR.1.2		6,			Kindergarten Geometry Test 1-4	
		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.1.3	4, 6, 9, 15, 23, 35, 44					
		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.	MA.K.GR.1.4			9			
		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.K.GR.1.5						
Data Analysis and Probability	Develop an understanding for collecting, representing and comparing data.	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.K.DP.1.1				DT Kindergarten Data 1-10	Kindergarten Data Test 1, 2	

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	0 3	GRADE 1		Mathse	Mathseeds Lesson #		Additional Resources		
				Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency	Assessment	
Domain	Standard	Benchmark	Code	Online Lesson, Printable Resources, and Problem Solving Tasks	End–of– lesson Quiz	Critical Thinking and Problem Solving Interactives	Driving Tests (DT) Mental Minute (MM)	Printable Achievement Standards Assessment	
	Extend counting sequences and understand the place value of two-digit numbers.	Starting at a given number, count forward and backwards within 120 by ones. Skip count by 2s to 20 and by 5s to 100.	MA.1.NSO.1.1			60, 67, 75, 81, 88, 117	DT Kindergarten Number 21-23 DT Grade 1 Number 1-24 DT Grade 1 Patterns and Fractions 7-10, 12		
		Read numbers from 0 to 100 written in standard form, expanded form and word form. Write numbers from 0 to 100 using standard form and expanded form.	MA.1.NSO.1.2					Grade 1 Number and Algebra: Whole Numbers Test 1-9 Grade 1 Number and Algebra:	
		Compose and decompose two-digit numbers in multiple ways using tens and ones. Demonstrate each composition or decomposition with objects, drawings and expression or equations.	MA.1.NSO.1.3	60, 67, 75, 77, 79, 81, 86, 88, 90, 98				Place Value Test 1-6 Grade 1 Number and Algebra: Patterns Test 1-7	
Number		Plot, order and compare whole numbers up to 100.	MA.1.NSO.1.4					• • •	
Sense and Operations		Recall addition facts with sums to 10 and related subtraction facts with automaticity.	MA.1.NSO.2.1				MM Subtraction Sprints	Grade 1 Number and Algebra:	
	Develop an understanding of addition and subtraction operations with one- and two-digit numbers.	Add two whole numbers with sums from 0 to 20, and subtract using related facts with procedural reliability.	MA.1.NSO.2.2	53, 58, 65, 68, 72, 85		53, 65, 72, 76, 85, 91		Operations Test 1-4	
		Identify the number that is one more, one less, ten more and ten less than a given two-digit number.	MA.1.NSO.2.3				DT Grade 1 Operations 1, 3-20	Grade 1 Number and Algebra:	
		Explore the addition of a two-digit number and a one-digit number with sums to 100.	MA.1.NSO.2.4	95, 96, 100		hx us uh iiii		Operations Test 5, 6	
	• • •	Explore subtraction of a one-digit number from a two-digit number.	MA.1.NSO.2.5						
Fractions	Develop an understanding of fractions by partitioning shapes into halves and fourths.	Partition circles and rectangles into two and four equal-sized parts. Name the parts of the whole using appropriate language including halves or fourths.	MA.1.FR.1.1	61, 66		61	DT Grade 1 Patterns and Fractions 3, 5, 6, 11, 13, 14		
	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.1.1						
		Solve addition and subtraction real-world problems using objects, drawings or equations to represent the problem.	MA1.AR.1.2	51		56	DT Grade 1 Operations 2		
Algebraic Reasoning	Develop an understanding	Restate a subtraction problem as a missing addend problem using the relationship between addition and subtraction.	MA.1.AR.2.1						
		Determine and explain if equations involving addition or subtraction are true or false.	MA.1.AR.2.2	76, 93 9		93			
	addition and subtraction.	Determine the unknown whole number in an addition or subtraction equation, relating three whole numbers, with the unknown in any position.	MA.1.AR.2.3				~ ~ } (
	Compare and measure the	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.1.1	FF 04			DT Grade 1 Measurement 2, 4, 13, 14	Grade 1 Measurement: Length	
	length of objects	Compare and order the length of up to three objects using direct and indirect comparison.	MA.1.M.1.2	55, 84				and Capacity Test 1-5	
Measurement		Using analog and digital clocks, tell and write time in hours and half-hours.	MA.1.M.2.1	39, 54, 70, 87		87	DT Grade 1 Measurement 1, 8-10, 15, 16	Grade 1 Measurement: Time Test 1-4	
	Tell time and identify the value of coins and combinations of coins and	Identify pennies, nickels, dimes and quarters, and express their values using the ¢ symbol. State how many of each coin equal a dollar.	MA.1.M.2.2					Kindergarten Number Test 5	
	dollar bills.	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 $\frak c$ and \$ symbols appropriately.	MA.1.M.2.3	64, 83, 93		83	DT Grade 1 Measurement 3, 5-7, 12	Grade 1 Number and Algebra: Fractions and Money Test 4-8	
Geometric	Identify and analyze two- and three-dimensional figures based on their defining attributes.	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. 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.	MA.1.GR.1.1 MA.1.GR.1.4	52, 62, 99, 121, 169		02, 121, 140	DT Grade 1 Geometry 1-3, 6-8, 10, 17-19 DT Grade 2 Geometry 3, 5, 7	Grade 1 Geometry: Shape Test 1-5 Grade 2 Geometry: Shape and Movement Test 3, 4	
Reasoning		Sketch two-dimensional figures when given defining attributes. Figures are limited to triangles, rectangles, squares and hexagons.	MA.1.GR.1.2					Grade 1 Geometry: Shape	
		Compose and decompose two- and three-dimensional figures. Figures are limited to semi-circles, triangles, rectangles, squares, trapezoids, hexagons, cubes, rectangular prisms, cones and cylinders.	MA.1.GR.1.3	69		52, 69	DT Grade 1 Geometry 9, 13	Test 6	
Data Collect, represent and Analysis and interpret data using Probability pictographs and tally marks	Collect, represent and	Collect data into categories and represent the results using tally marks or pictographs.	MA.1.DP.1.1					Consider A Charlishing To 1	
	Interpret data represented with tally marks or pictographs by calculating the total number of data points and comparing the totals of different categories.	MA.1.DP.1.2	80, 97		80		Grade 1 Statistics: Data Test 1-5		

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		GRADE 2		Mathseeds Lesson #			Additional Resources		
				Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency	Assessment	
Domain	Standard	Benchmark	Code	Online Lesson, Printable Resources, and Problem Solving Tasks	End-of-lesson Quiz	Critical Thinking and Problem Solving Interactives	Driving Tests (DT) Mental Minute (MM)	Printable Achievement Standards Assessment	
	Understand the place value of three-digit numbers.	Read and write numbers from 0 to 1,000 using standard form, expanded form and word form.	MA.2.NSO.1.1	<u> </u>		105, 106, 108	1-24		
		Compose and decompose three-digit numbers in multiple ways using hundreds, tens and ones. Demonstrate each composition or decomposition with objects, drawings and expressions or equations.	MA.2.NSO.1.2					Grade 2 Number and Algebra: Numbers to 1000 Test 1-7	
		Plot, order and compare whole numbers up to 1,000.	MA.2.NSO.1.3						
		Round whole numbers from 0 to 100 to the nearest 10.	MA.2.NSO.1.4	129		0 0 0 0 0			
Number and Sense and Operations		Recall addition facts with sums to 20 and related subtraction facts with automaticity.	MA.2.NSO.2.1	142		142		Grade 2 Number and Algebra: Addition and Subtraction Test 1, 2	
	Add and subtract two- and three-digit whole	Identify the number that is ten more, ten less, one hundred more and one hundred less than a given three-digit number.	MA.2.NSO.2.2	148			DT Grade 2 Operations 27, 28		
	numbers.	Add two whole numbers with sums up to 100 with procedural reliability. Subtract a whole number from a whole number, each no larger than 100, with procedural reliability.	MA.2.NSO.2.3	103, 110, 118, 120, 124, 128, 131			7 12 17 20 22	Grade 2 Number and Algebra: Addition and Subtraction Test 3-8	
		Explore the addition of two whole numbers with sums up to 1,000. Explore the subtraction of a whole number from a whole number, each no larger than 1,000.	MA.2.NSO.2.4	134, 139, 144, 146			DT Grade 2 Operations 18, 21, 23-26		
Fractions	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.	MA.2.FR.1.1	132, 138		132		Grade 2 Number and Algebra: Fractions and Money Test 1-4	
Tractions		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.	MA.2.FR.1.2	152, 150					
	Solve addition problems with sums between 0 and 100 and related subtraction problems.	Solve one- and two-step addition and subtraction real-world problems.	MA.2.AR.1.1			150			
Algebraic Reasoning	with sums between 0 and 100 and related subtraction problems. Develop an understanding of	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.3.1				DT Grade 2 Operations 3		
	multiplication.	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.2.AR.3.2	74, 113, 130		74, 77, 79, 113, 130, 133	DT Grade 2 Operations 6, 8-12, 19		
	Measure the length	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.1.1	104, 126			DT Grade 2 Measurement	Grade 2 Measurement: Informal Units	
	of objects and solve problems involving	Measure the lengths of two objects using the same unit and determine the difference between their measurements.	MA.2.M.1.2				6, 13-15, 21	Test 1, 2	
Measurement	length.	Solve one- and two-step real-world measurement problems involving addition and subtraction of lengths given in the same units.	MA.2.M.1.3	141		• 10/1 1/11	DT Grade 2 Measurement 22	Grade 2 Measurement: Informal Units Test 8	
	Tell time and solve problems involving	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 to.	MA.2.M.2.1	114, 123, 127			DT Grade 2 Measurement 7, 10, 20	Grade 2 Measurement: Time Test 1-3	
	money.	Solve one- and two-step addition and subtraction real-world problems involving either dollar bills within \$100 or coins within 100¢ using \$ and ¢ symbols appropriately.	MA.2.M.2.2	125, 127, 147, 159			DI Grade 2 Measurement	Grade 2 Number and Algebra: Fractions and Money Test 5-8	
	Identify and analyze	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.1.1	119		119		Grade 2 Geometry: Shape	
Geometric Reasoning	two-dimensional figure	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.2.GR.1.2			113	4, 6, 10	and Movement Test 1, 2, 5	
		Identify line(s) of symmetry for a two-dimensional figure.	MA.2.GR.1.3	152					
Data Analysis and	Collect, categorize, represent and interpret	Collect, categorize and represent data using tally marks, tables, pictographs or bar graphs. Use appropriate titles, labels and units.	MA.2.DP.1.1	143				Grade 2 Statistics: Data Test 1-6	
Probability	nalysis and	Interpret data represented with tally marks, tables, pictographs or bargraphs including solving addition and subtraction problems.	MA.2.DP.1.2						



graphs or line plots by solving one- and two-step problems.

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	000	GRADE 3		Mathseeds Lesson #			Additional Resources	
				Knowledge and Skills Asses	ssment	Higher Order Thinking Skills	Fluency	Assessment
Domain	Standard	Benchmark	Code		of–lesson Quiz	Critical Thinking and Problem Solving Interactives	Driving Tests (DT) Mental Minute (MM)	Printable Achievem Standards Assessm
		Read and write numbers from 0 to 10, 000 using standard form, expanded form and word form.	MA.3.NSO.1.1					•
	Understand the place value of fourdigit numbers.	Compose and decompose four-digit numbers in multiple ways using thousands, hundreds, tens and ones. Demonstrate each composition or decomposition using objects, drawings and expressions or equations.	MA.3.NSO.1.2	151, 156, 161		151, 156, 161		0 0 0 0 0 0
		Plot, order and compare whole numbers up to 10,000.	MA.3.NSO.1.3					•
		Round whole numbers from 0 to 1,000 to the nearest 10 or 100.	MA.3.NSO.1.4	194	•	194		•
	Add and subtract multi-digit whole numbers. Build an understanding of multiplication and division operations.	Add and subtract multi-digit whole numbers including using a standard algorithm with procedural fluency.	MA.3.NSO.2.1	163, 170, 173, 178, 183, 195	0	163, 170, 173, 178, 183, 195	MM Addition Sprints MM Subtraction Sprints	•
		Explore multiplication of two whole numbers with products from 0 to 144, and related division facts.	MA.3.NSO.2.2	71, 111, 115, 155		71, 115, 136		Grade 2 Number and Algebra: Equal Group Test 1-5
		Multiply a one-digit whole number by a multiple of 10, up to 90, or a multiple of 100, up to 900, with procedural reliability.	MA.3.NSO.2.3	193	0	193		0
		Multiply two whole numbers from 0 to 12 and divide using related facts with procedural reliability.	MA.3.NSO.2.4	136, 158, 165, 168, 171, 176, 181, 186, 190, 196	6, 199	168, 176, 181, 186, 188, 196, 199	MM Multiplication Sprints MM Division Sprints	0
	Understand fractions as numbers and represent fractions.	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.	MA.3.FR.1.1					
Fractions		Represent and interpret fractions, including fractions greater than one, in the form of m/n as the result of adding the unit fraction 1/n to itself m times.	MA.3.FR.1.2	197		197		
		Read and write fractions, including fractions greater than one, using standard form, numeral-word form and word form.	MA.3.FR.1.3					
	fractions and identify	Plot, order and compare fractional numbers with the same numerator or the same denominator.	MA.3.FR.2.1	160, 175, 180, 191	175, 180, 191			
		Identify equivalent fractions and explain why they are equivalent.	MA.3.FR.2.2		173, 160, 131			
Algebraic Reasoning	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.1.1	188				ŏ o o o o o o o o o o o o o o o o o o o
		Solve one- and two-step-real-world problems involving any of four operations with whole numbers.	MA.3.AR.1.2					•
	Identify numerical patterns, including multiplicative patterns.	Determine and explain whether a whole number from 1 to 1,000 is even or odd.	MA.3.AR.3.1	166	•	108		• • • • •
		Determine whether a whole number from 1 to 144 is a multiple of a given one-digit number.	MA.3.AR.3.2					•
		Identify, create and extend numerical patterns.	MA.3.AR.3.3	117, 133, 137, 153		101, 137, 153	DT Grade 2 Patterns and Fractions 1-4, 6-10, 13	Grade 2 Number an Algebra: Number Pa Test 1-8
Measurement	Measure attributes of objects and solve problems involving measurement.	Select and use appropriate tools to measure the length of an object, the volume of liquid within a beaker and temperature.	MA.3.M.1.1	154, 172, 182		• 15/1 1/1 18/1	DT Grade 2 Measurement	
		Solve real-world problems involving any of the four operations with whole-number lengths, masses, weights, temperatures or liquid volumes.	MA.3.M.1.2				8, 18, 19	
	Tell and write time and solve problems involving time.	Using analog and digital clocks tell and write time to the nearest minute using a.m. and p.m. appropriately.	MA.3.M.2.1	— 162, 179, 185, 189	179, 185, 189			
		Solve one- and two-step real-world problems involving elapsed time.	MA.3.M.2.2					
Geometric Reasoning	Describe and identify relationships between lines and classify quadrilaterals.	Describe and draw points, lines, line segments, rays, intersecting lines, perpendicular lines and parallel lines. Identify these in two-dimensional figures.	MA.3.GR.1.1	177	0			• • •
		Identify and draw quadrilaterals based on their defining attributes. Quadrilaterals include parallelograms, rhombi, rectangles, squares and trapezoids.	MA.3.GR.1.2	145, 184	•	145		• • •
		Draw line(s) of symmetry in a two-dimensional figure and identify line-symmetric two-dimensional figures.	MA.3.GR.1.3					•
	Solve problems involving the perimeter and area of rectangles.	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.2.1	59, 112, 149		59		Grade 2 Measureme Informal Units Test 3
		Find the area of a rectangle with whole-number side lengths using a visual model and a multiplication formula.	MA.3.GR.2.2	157				•
		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.2.3	192, 200		149, 200		
		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.3.GR.2.4	172, 200		177, 200		•
ata Analysis	Collect, represent and interpret	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.3.DP.1.1	174, 187, 198				
and Probability n	numerical and	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.	MA.3.DP.1.2		187			