Kansas Mathematics Standards

KINDERGARTEN

				Mathseeds Lesson #			Additional Mathseeds Resources	
				Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency	Assessment
Domain	**Cluster**	**Standard**	**Code**	**Online Lesson, Printable Resources, & Problem Solving Tasks**	**End-of-lesson Quiz**	**Critical Thinking and Problem Solving Interactives**	**Driving Tests (DT) Mental Minute (MM)**	**Printable Achievement Standards Assessment**
Counting and Cardinality	Know number names and the count sequence.	Count to 100 by ones and by tens and identify as a growth pattern; Count forward beginning from a given number; Read and write numerals from 0 to 20.	K.CC.1 K.CC.2 K.CC.3	1, 2, 3, 5, 7, 10, 11, 12, 14, 16, 17, 18, 19, 20, 21, 25, 28, 33, 41, 43, 45, 46, 48, 50			**DT** Kindergarten Number 2, 4, 5, 9–13, 16, 17, 21, 23	**Kindergarten Number** Test 1, 2
	Count to tell the number of objects	Understand the relationship between numbers and quantities; Connect counting to cardinality; Count to answer “how many?”.	K.CC.4 K.CC.5	5, 7, 8, 11, 12, 16, 25, 31, 33, 36, 43, 45, 47, 48, 50, 63		12, 19, 30, 31, 46, 47	**DT** Kindergarten Number 1, 3, 14, 15, 22	**Kindergarten Number** Test 2
	Compare numbers.	Identify whether the number of objects in one group is greater than, less than, or equal to the number of objects in another; Compare two numbers.	K.CC.6 K.CC.7	18, 22, 31, 41, 43, 45, 46		38	**DT** Kindergarten Number 6–8, 18–20	**Kindergarten Number** Test 3
Operations and Algebraic Thinking	Understand addition as putting together and adding to, and understand subtraction as taking apart and taking from.	Represent addition and subtraction; Solve addition and subtraction word problems; Add and subtract within 10; Decompose numbers less than or equal to 10 into pairs; Find the number that makes 10 when added to the given number; Fluently add and subtract within 5.	K.OA.1 K.OA.2 K.OA.3 K.OA.4 K.OA.5	21, 24, 25, 30, 31, 32, 34, 36, 40, 41, 45, 46, 47, 49, 50		34, 36, 40, 41	**DT** Kindergarten Operations 1–14, 16–20 **MM** Addition Sprints **MM** Subtraction Sprints	**Kindergarten Operations** Test 1–4
Number and Operations in Base Ten	Work with numbers 11–19 to gain foundations for place value.	Compose and decompose numbers from 11 to 19 into ten ones and some further ones.	K.NBT.1	41, 43, 45, 46, 48, 50		43, 46, 47	**DT** Kindergarten Operations 2, 6, 9	**Kindergarten Number** Test 4
Measurement and Data	Describe and compare measurable attributes.	Describe measurable attributes of objects (length); Directly compare two objects to see which object has “more of”/”less of” the attribute, and describe the difference.	K.MD.1 K.MD.2	13, 26			**DT** Kindergarten Measurement 2, 3, 5, 6, 9, 10	**Kindergarten Measurement** Test 1–3
		Describe measurable attributes of objects (weight); Directly compare two objects to see which object has “more of”/”less of” the attribute.		29, 73, 135		135	**DT** Kindergarten Measurement 7, 8, 12	**Kindergarten Measurement** Test 4 **Grade 2 Measurement: Informal Units** Test 6, 7
		Describe measurable attributes of objects; Directly compare two objects to see which object has “more of”/”less of” the attribute.		38, 39, 42, 89, 109, 116		37, 38, 109	**DT** Kindergarten Measurement 1, 4, 11, 13–20 **DT** Grade 1 Measurement 11, 17–19 **DT** Grade 2 Measurement 1–5, 8, 14, 16	**Kindergarten Measurement** Test 5–7 **Grade 1 Measurement: Length and Capacity** Test 6, 7 **Grade 2 Measurement: Informal Units** Test 4, 5
	Clsasify objects and count the number of objects in each category.	Classify objects into given categories; Count the numbers of objects in each category and sort the categories by count.	K.MD.3				**DT** Kindergarten Data 1–10	**Kindergarten Data** Test 1, 2
Geometry	Identify and describe shapes & Analyze, compare, create, and compose shapes.	Describe objects in the environment using names of shapes, and describe the relative positions of these objects.	K.G.1	57, 78, 94		57, 78, 94	**DT** Kindergarten Geometry 9–11, 13, 14 **DT** Grade 1 Geometry 4, 5, 11, 12, 14–16 **DT** Grade 2 Geometry 2, 8, 11, 13	**Kindergarten Geometry** Test 5, 6 **Grade 1 Geometry: Shape** Test 7, 8
		Correctly gives most precise name of shapes (2D) regardless of their orientations or overall size; Identify shapes as two-dimensional; Analyze and compare two-dimensional shapes, in different sizes and orientations; Model shapes in the world.	K.G.2 K.G.3 K.G.4 K.G.5	4, 6, 9, 15, 23, 27, 37		6, 8, 15, 23, 27	**DT** Kindergarten Geometry 1–8, 19, 20	**Kindergarten Geometry** Test 1, 3
		Correctly gives most precise name of shapes (3D) regardless of their orientations or overall size; Identify shapes as three-dimensional; Analyze and compare three-dimensional shapes, in different sizes and orientations; Model shapes in the world.		35, 44			**DT** Kindergarten Geometry 15–23	**Kindergarten Geometry** Test 2, 3
		Compose simple shapes to form larger shapes.	K.G.6				**DT** Kindergarten Geometry 12	**Kindergarten Geometry** Test 4

Kansas Mathematics Standards

GRADE 1

				Mathseeds Lesson #			Additional Mathseeds Resources	
				Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency	Assessment
Domain	**Cluster**	**Standard**	**Code**	**Online Lesson, Printable Resources, & Problem Solving Tasks**	**End-of-lesson Quiz**	**Critical Thinking and Problem Solving Interactives**	**Driving Tests (DT) Mental Minute (MM)**	**Printable Achievement Standards Assessment**
Operations and Algebraic Thinking	Represent and solve problems involving addition and subtraction.	Use addition and subtraction within 20 to solve word problems; Solve word problems that call for addition of three whole numbers.	1.OA.1 1.OA.2	51, 53, 58, 65, 68, 72, 85, 91		65, 68, 77, 83, 91, 93	**DT** Grade 1 Operations 2 **MM** Addition Sprints **MM** Subtraction Sprints	**Grade 1 Number and Algebra: Operations** Tests 3, 4
	Understand and apply properties of operations and the relationship between addition and subtraction.	Apply properties of operations as strategies to add and subtract; Understand subtraction as an unknown-addend problem.	1.OA.3 1.OA.4	93, 100		93	**DT** Grade 1 Operations 6, 16 **MM** Addition Sprints **MM** Subtraction Sprints	**Grade 1 Number and Algebra: Operations** Test 5
	Add and subtract within 20.	Relate counting to addition and subtraction; Add and subtract within 20.	1.OA.5 1.OA.6	56, 58, 68, 72, 77, 85		56, 68, 77	**DT** Grade 1 Operations 1, 3, 4, 5, 7, 9 **MM** Addition Sprints **MM** Subtraction Sprints	**Grade 1 Number and Algebra: Operations** Test 1, 2
	Work with addition and subtraction equations.	Understand the meaning of the equal sign, and determine if equations involving addition and subtraction are true or false.	1.OA.7	76			**DT** Grade 1 Operations 10, 11 **MM** Addition Sprints **MM** Subtraction Sprints	
		Determine the unknown whole number in an addition or subtraction equation relating three whole numbers.	1.OA.8	51, 53, 56, 58, 65, 68, 72, 85, 91, 93, 95, 96, 98, 100			**DT** Grade 1 Operations 8, 10, 11 **MM** Addition Sprints **MM** Subtraction Sprints	
Number and Operations in Base Ten	Extend the counting sequence.	Count to 120; Read and write numerals and represent a number of objects with a written numeral.	1.NBT.1	60, 67, 75, 81, 86, 90		60, 67	**DT** Grade 1 Number 1–6, 8, 11–17, 21–24	
	Understand place value.	Understand that the two digits of a two-digit number represent amounts of tens and ones.	1.NBT.2	88		88	**DT** Grade 1 Number 9, 10, 19	**Grade 1 Number and Algebra: Whole Numbers** Test 1–5
		Compare two two-digit numbers based on meanings of the tens and ones digits, recording the results of comparisons with the relational symbols >, <, =, and ≠.	1.NBT.3	56, 60, 81, 86		60, 80, 83	**DT** Grade 1 Number 7, 18	**Grade 1 Number and Algebra: Whole Numbers** Test 6
	Use place value understanding and properties of operations to add and subtract.	Add within 100; Relate the strategy to a written method and explain the reasoning.	1.NBT.4	88, 95, 96, 98		96	**DT** Grade 1 Operations 18 **MM** Addition Sprints **MM** Subtraction Sprints	**Grade 1 Number and Algebra: Operations** Test 6
		Given a two-digit number, mentally find 10 more or 10 less than the number; Subtract multiples of 10 in the range 10 to 90 from multiples of 10 in the range 10 to 90.	1.NBT.5 1.NBT.6	79, 98			**DT** Grade 1 Operations 13, 14, 19, 20 **MM** Addition Sprints **MM** Subtraction Sprints	**Grade 1 Number and Algebra: Patterns** Test 1–7
Measurement and Data	Measure lengths indirectly and by iterating length units.	Order three objects by length; Compare the lengths of two objects indirectly by using a third object; Express the length of an object as a whole number of length units.	1.MD.1 1.MD.2	55, 84			**DT** Grade 1 Measurement 2, 4, 13, 14	**Grade 1 Measurement: Length** Tests 1–5
	Tell and write time.	Tell and write time in hours and half-hours using analog and digital clocks.	1.MD.3	54, 70, 87		87	**DT** Grade 1 Measurement 1, 8, 9, 10, 15	**Grade 1 Measurement: Time** Tests 1–5
	Represent and interpret data.	Organize, represent, and interpret data with up to three categories; Ask and answer questions about the total number of data points, how many in each category, and how many more or less are in one category than in another.	1.MD.4	80, 97		80	**DT** Grade 1 Data 1–4, 6, 9, 10, 12–16	**Grade 1 Statistics: Data** Tests 1–5
Geometry	Reason with shapes and their attributes.	Distinguish between defining attributes versus non-defining attributes; Build and draw shapes to possess defining attributes; Compose two-dimensional shapes to create a composite shape, and compose new shapes from the composite shapes.	1.G.1 1.G.2	52, 62, 69, 99		69	**DT** Grade 1 Geometry 9, 10, 13	**Grade 1 Geometry: Shape** Test 1–7 **Grade 1 Number and Algebra: Fractions and Money** Test 1, 2
		Partition circles and rectangles into two and four equal shares, describe the shares using word and phrases.	1.G.3	61, 66			**DT** Grade 1 Patterns and Fractions 5, 6, 13, 14	**Grade 1 Number and Algebra: Fractions and Money** Test 1, 2

Kansas Mathematics Standards

GRADE 2

				Mathseeds Lesson #			Additional Mathseeds Resources	
				Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency	Assessment
Domain	**Cluster**	**Standard**	**Code**	**Online Lesson, Printable Resources, & Problem Solving Tasks**	**End-of-lesson Quiz**	**Critical Thinking and Problem Solving Interactives**	**Driving Tests (DT) Mental Minute (MM)**	**Printable Achievement Standards Assessment**
Operations and Algebraic Thinking	Represent and solve problems involving addition and subtraction.	Use addition and subtraction within 100 to solve one- and two-step word problems.	2.OA.1	103, 110, 111, 113, 118, 120, 124, 128, 131, 133, 134, 137, 139, 148, 150		112, 118, 124, 125, 128, 132, 133, 134, 136, 139, 144, 146, 147, 150	**MM** Addition Sprints **MM** Subtraction Sprints	**Grade 2 Number and Algebra: Addition and Subtraction** Test 9
	Add and subtract within 20.	Fluently add and subtract within 20 using mental strategies; Work with equal groups of objects to gain foundations for multiplication.	2.OA.2	142			**DT** Grade 2 Operations 2, 5, 22 **MM** Addition Sprints **MM** Subtraction Sprints	**Grade 2 Number and Algebra: Addition and Subtraction** Test 1
	Work with equal groups of objects to gain foundations for multiplication.	Determine whether a group of objects has an odd or even number of members; Write an equation to express an even number as a sum of two equal addends.	2.OA.3	108			**DT** Grade 2 Operations 3	**Grade 2 Number and Algebra: Numbers to 1000** Test 6
		Use addition to find the total number of objects arranged in rectangular arrays; Write an equation to express the total as a sum of equal addends.	2.OA.4	111, 113, 115, 130		113, 130, 136	**DT** Grade 2 Operations 8, 9, 10, 19 **MM** Multiplication Sprints	**Grade 2 Number and Algebra: Equal Groups** Test 1–5
Number and Operations in Base Ten	Understand place value.	Understand that the three digits of a three-digit number represent amounts of hundreds, tens, and ones.	2.NBT.1	101, 105, 106		105	**DT** Grade 2 Number 4, 8, 16, 18–22	**Grade 2 Number and Algebra: Numbers to 1000** Test 5, 8
		Count within 1000; Skip-count by 2s, 5s, 10s, and 100s; Explain and generalize the patterns.	2.NBT.2	101, 105, 106, 117, 129		105, 112, 132, 133	**DT** Grade 2 Number 2, 3, 6, 7, 9–13, 17 **DT** Grade 2 Patterns and Fractions 1–4, 6–10, 13	**Grade 2 Number and Algebra: Number Patterns** Test 1–7
		Read and write numbers within 1000 using base-ten numerals, number names, expanded form, and unit form.	2.NBT.3	106			**DT** Grade 2 Number 1, 5, 23, 24	**Grade 2 Number and Algebra: Numbers to 1000** Test 1, 2, 3, 4
		Compare two three-digit numbers based on meanings of the hundreds, tens, and ones digits, using >, <, =, and ≠ relational symbols to record the results of comparisons.	2.NBT.4	122			**DT** Grade 2 Number 14, 15	**Grade 2 Number and Algebra: Numbers to 1000** Test 7
	Use place value understanding and properties of operations to add and subtract.	Fluently add and subtract within 100 using strategies on place value, properties of operations, and/or the relationship between addition and subtraction; Add up to four two-digit numbers using strategies based on place value and properties of operations.	2.NBT.5 2.NBT.6	103, 110, 118, 120, 124, 133, 144, 146, 150		118, 124, 133, 139, 144, 146, 150	**DT** Grade 2 Operations 1, 4, 7, 13–17, 20, 23 **MM** Addition Sprints **MM** Subtraction Sprints	**Grade 2 Number and Algebra: Addition and Subtraction** Test 2–4, 7
		Add and subtract within 1000.	2.NBT.7	128, 129, 134, 144, 146		134, 144, 146	**DT** Grade 2 Operations 18, 24, 25, 26 **MM** Addition Sprints **MM** Subtraction Sprints	**Grade 2 Number and Algebra: Addition and Subtraction** Test 5, 6, 8
		Mentally add 10 or 100 to a given number 100–900, and mentally subtract 10 or 100 from a given number 100–900.	2.NBT.8	148			**DT** Grade 2 Operations 27, 28 **MM** Addition Sprints **MM** Subtraction Sprints	
Measurement and Data	Measure and estimate lengths in standard units.	Measure the length of an object by selecting and using appropriate tooles; Estimate lengths using whole units of inches, feet, centimeters, and meters; Measure to determine how much longer one object is than another.	2.MD.1 2.MD.2 2.MD.3 2.MD.4	104, 126			**DT** Grade 2 Measurement 9, 11, 13, 15, 21–24	**Grade 2 Measurement: Informal Units** Test 3–7
	Relate addition and subtraction to length.	Use addition and subtraction with 100 to solve one- and two-step word problems involving lengths; Represent whole numbers as lengths from 0 on a number line diagram.	2.MD.5 2.MD.6	141			**DT** Grade 2 Measurement 19	**Grade 2 Measurement: Informal Units** Test 8
	Work with time and money.	Tell and write time from analog and digital clocks to the nearest five minutes.	2.MD.7	109, 114, 123, 127			**DT** Grade 2 Measurement 7, 20	**Grade 2 Measurement: Time** Test 1–6
		Solve word problems involving dollar bills, quarteres, dimes, nickels, and pennies; Identify coins and bills and their values.	2.MD.8 2.MD.9	64, 83, 92, 125, 147, 159		125, 147	**DT** Grade 1 Measurement 3, 5, 6, 7, 12 **DT** Grade 2 Measurement 12	**Grade 1 Number and Algebra: Fractions and Money** Tests 4–8 **Grade 2 Number and Algebra: Fractions and Money** Test 4–7
	Represent and interpret data.	Generate measurement data by measuring lengths of several objects to the nearest whole unit, or by making repeated measurements of the same objects using different units; Draw a picture graph and a bar graph to represent a data set with up to four categories; Solve operation problems using information presented in a bar graph.	2.MD.10 2.MD.11	143			**DT** Grade 2 Data and Chance 1, 4, 5, 7–14	**Grade 2 Statistics: Data** Test 1–5
Geometry	Reason with shapes and their attributes.	Recognize and draw shapes having specified attributes; Identify triangles, quadrilaterals, pentagons, hexagons, and cubes.	2.G.A.1	119, 121, 145		102, 119, 121, 140	**DT** Grade 2 Geometry 3–7, 10	**Grade 2 Geometry: Shapes** Test 1–5
		Partition a rectangle into rows and columns of same-size squares and count to find the total; Partition circles and rectangles into two, three, or four equal shares.	2.G.A.2 2.G.A.3	132			**DT** Grade 2 Patterns and Fractions 11, 12, 14, 16	**Grade 2 Number and Algebra: Fractions and Money** Test 1–3

Kansas Mathematics Standards

GRADE 3

				Mathseeds Lesson #			Additional Mathseeds Resources	
				Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency	Assessment
Domain	**Cluster**	**Standard**	**Code**	**Online Lesson, Printable Resources, & Problem Solving Tasks**	**End-of-lesson Quiz**	**Critical Thinking and Problem Solving Interactives**	**Driving Tests (DT) Mental Minute (MM)**	**Printable Achievement Standards Assessment**
Operations and Algebraic Thinking	Rerepresent and solve problems involving multiplication and division.	Illustrate the product of two whole numbers as equal groups.	3.OA.1	74, 155		153, 168, 176, 181, 186, 188, 196	**MM** Multiplication Sprints	
		Illustrate and interpret the quotient of two whole numbers.	3.OA.2	71, 136, 165, 181, 190			**MM** Division Sprints	
		Use multiplication and division within 100 to solve word problems.	3.OA.3	168, 196		168, 196	**MM** Multiplication Sprints **MM** Division Sprints	
		Determine the unknown whole number in a multiplication or division equation relating three whole numbers.	3.OA.4	186		186	**MM** Multiplication Sprints **MM** Division Sprints	
	Understand properties of multiplication and the relationship between multiplication and division.	Apply properties of operations as strategies to multiply and divide; Understand division as an unknown-factor problem.	3.OA.5 3.OA.6	181, 190		181	**MM** Multiplication Sprints **MM** Division Sprints	
	Multiply and divide within 100 (basic facts up to 10 × 10)	Fluently multiply and divide with single digit multiplications and related divisions using strategies or properties of operations.	3.OA.7	155, 158, 165, 171, 176, 196, 199		186, 188, 193, 199	**MM** Multiplication Sprints **MM** Division Sprints	
	Solve problems involving the four operations, and identify and explain patterns in arithmetic.	Solve two-step word problems using an of the four operations; Represent these problems using both situation equations and/or solution equations with a letter or symbol standing for the unknown quantity.	3.OA.8	183, 188, 195		183, 188, 195	**MM** Addition Sprints **MM** Subtraction Sprints **MM** Multiplication Sprints **MM** Division Sprints	
		Identify arithmetic patterns, and explain them using properties of operations.	3.OA.9	77, 79, 90, 153, 158, 166, 195		77		
Number and Operations in Base Ten	Use place value understanding and properties of operations to perform multi-digit arithmetic.	Use place value understanding to round whole numbers to the nearest 10 or 100.	3.NBT.1	129, 194		194		
		Fluently add and subtract within 1000.	3.NBT.2	163, 170, 173, 178		170, 172, 178, 183, 188, 195	**MM** Addition Sprints **MM** Subtraction Sprints	
		Multiply one-digit whole numbers by multiples of 10 in the range 10-90 using strategies based on place value and properties of operations.	3.NBT.3	193			**MM** Multiplication Sprints	
Number and Operations – Fractions	Develop understanding of fractions as numbers.	Understand a fraction 1/b as the quantity formed by 1 part when a whole is partitioned into b equal parts; Understand a fraction a/b as the quantity formed by a parts of size 1/b.	3.NF.1	138, 175		175		
		Understand a fraction as a number on the number line; Represent fractions on a number line diagram.	3.NF.2	160, 191				
		Explain equivalance of fractions, and compare fractions by reasoning about their size.	3.NF.3	180, 191, 197		180, 197		
Measurement and Data	Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects.	Tell and write time to the nearest minute using a.m. and p.m. and measure time intervals in minutes; Solve word problems involving addition and subtraction of time intervals in minutes.	3.MD.1	162, 179, 185, 189				
		Measure and estimate liquid volumes and masses of objects using standard units of grams (g), kilograms (kg), and liters (l); Add, subtract, multiply, or divide to solve one-step word problems involving masses or volumes that are given in the same units.	3.MD.2 3.MD.3	116, 135, 154, 172		154		
	Represent and interpret data.	Draw a scaled picture graph and a scaled bar graph to represent a data set with several categories; Solve one- and two-step “how many more” and “how many less” problems using information presented in scaled bar graphs; Generate measurement data; Show the data by making a line plot.	3.MD.4 3.MD.5	174, 182, 187, 198				
	Geometric measurement	Understand concepts of area and relate area to multiplication and to addition.	3.MD.6 3.MD.7 3.MD.8	59, 149, 157, 200		182		
		Recognize perimeter as a attribute of plante attribute of plane figures and distinguish between linear and area measures.	3.MD.9	192				
Geometry	Reason with shapes and their attributes.	Understand that shapes in different categories, and that the shared attributes can define a larger category; Recognize rhombuses, rectangles, and squares as examples of quadrilaterals, and draw examples of quadrilaterals that do not belong to any of these subcategories.	3.G.1	169, 184				