Arkansas Math Standards

KINDERGARTEN

Domain	Standard	Expectations	Code	Mathseeds Lesson #			Additional Mathseeds Resources	
				Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency	Assessment
				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
Number & Place Value	Counting & Number Foundations & Place Value	Count forward to 100; Count a set of objects up to 20, the last number indicates the number of objects; Identify quickly a number of items to 10 without counting; Read, write, and represent whole numbers from 0-20.	K.NPV.1 K.NPV.2 K.NPV.4 K.NPV.5	1, 2, 3, 5, 7, 10, 11, 12, 14, 16, 17, 18, 19, 20, 21, 22, 25, 28, 33, 41, 43, 45, 46, 48, 50		12, 46	**DT** Kindergarten Number 1–25	**Kindergarten Number** Test 1, 2
		Identify the position of objects in a set using ordinal numbers.	K.NPV.3	63		63	**DT** Kindergarten Number 24, 25	**Kindergarten Number** Test 6
		Show whole numbers up to 20 as groups of tens and ones.	K.NPV.6	41, 43, 45, 46, 48, 50		43	**DT** Kindergarten Number 11–19	**Kindergarten Number** Test 4
	Comparison	Compare groups of objects or two whole numbers, using the terms greater than, less than, or equal.	K.NPV.7 K.NPV.8	18, 22, 31, 41, 43, 45, 46		38	**DT** Kindergarten Number 6–8, 18–20	**Kindergarten Number** Test 3
Computation & Algebraic Reasoning	Operations & Properties & Problem Solving	Represent addition and subtraction from 0 to 10; Fluently add and subtract within 10; Solve real-world problems involving addition and subtraction within 10 and represent the problem.	K.CAR.1 K.CAR.4 K.CAR.5	24, 25, 30, 31, 32, 34, 36, 47, 49, 50		19, 30, 31, 40, 41, 47	**DT** Kindergarten Operations 1–8, 11–15, 18–20, 22–25 **MM** Addition Sprints **MM** Subtraction Sprints	**Kindergarten Operations** Test 1–4
		Decompose numbers less than or equal to 10 into pairs in more than one way, recording each decomposition; Find the number that makes 10 when added to a given number.	K.CAR.2 K.CAR.3	21, 31, 34, 36, 40		19, 31, 34, 36, 40	**DT** Kindergarten Operations 9, 10, 16, 17 **MM** Addition Sprints **MM** Subtraction Sprints	**Kindergarten Operations** Test 3
Geometry & Measurement	Shapes	Describe the positions of objects and geometric shapes in the environment.	K.GM.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
		Name two-dimensional shapes correctly regardless of their orientation or overall size; Analyze and sort two-dimensional shapes using informal language to describe their similiarities, differences, and other attributes.	K.GM.2 K.GM.4	4, 6, 9, 15, 23, 27, 37		6, 8, 15, 23, 27	**DT** Kindergarten Geometry 1–8, 19, 20	**Kindergarten Geometry** Test 1, 3
		Name three-dimensional shapes correctly regardless of their orientation or overall size; Identify two-dimensional attributes of three-dimensional objects; Analyze and sort three-dimensional shapes using informal language to describe their similiarities, differences, and other attributes.	K.GM.2 K.GM.3 K.GM.4	35, 44			**DT** Kindergarten Geometry 15–23	**Kindergarten Geometry** Test 2, 3
		Compose and draw shapes found in the world using objects.	K.GM.5				**DT** Kindergarten Geometry 12	**Kindergarten Geometry** Test 4
	Measurement Concepts	Make direct comparisons of the length of objects, recognizing which object is shorter/longer.	K.GM.6	13, 26			**DT** Kindergarten Measurement 2, 3, 5, 6, 9, 10	**Kindergarten Measurement** Test 1–3
		Make direct comparisons of the capacity of objects, recognizing which object holds more.		38, 89, 116		38	**DT** Kindergarten Measurement 11, 15, 16, 20 **DT** Grade 1 Measurement 11, 17–19 **DT** Grade 2 Measurement 8	**Kindergarten Measurement** Test 5 **Grade 1 Measurement: Length and Capacity** Test 6, 7 **Grade 2 Measurement: Informal Units** Test 4, 5
		Make direct comparisons of the weight of objects, recognizing which object is lighter/heavier.		29, 73, 135		135	**DT** Kindergarten Measurement 7, 8, 12	**Kindergarten Measurement** Test 4 **Grade 2 Measurement: Informal Units** Test 6, 7
	Time & Money	Understand concepts of time, recognizing that clocks and calendars are tools that measure time.	K.GM.7	39, 42, 109		37, 109	**DT** Kindergarten Measurement 1, 4, 13, 14, 17–19 **DT** Grade 2 Measurement 1–5, 14, 16	**Kindergarten Measurement** Test 6, 7 **Grade 2 Measurement: Time** Test 4, 5
		Identify pennies and dimes by name and value.	K.GM.8					**Kindergarten Number** Test 5
Data Analysis	Charts, Graphs, & Tables	Collect, sort, and organize data into two or three categories, using real-object graphs and picture graphs.	K.DA.1				**DT** Kindergarten Data 1–10	**Kindergarten Data** Test 1, 2

Arkansas Math Standards

GRADE 1

				Mathseeds Lesson #			Additional Mathseeds Resources	
				Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency	Assessment
Domain	**Standard**	**Expectations**	**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**
Number & Place Value	Counting & Place Value	Count forward and back within 120 by ones and tens; Skip count forward by multiples of fives within 120; Explain the place value of ones and tens in two-digit numbers; Read, write, and represent whole numbers up to 120.	1.NPV.1 1.NPV.2 1.NPV.3 1.NPV.4	56, 60, 67, 75, 77, 79, 81, 86, 90		56, 60, 67, 75, 77, 81	**DT** Grade 1 Number 1–6, 8–17, 19, 21–24 **DT** Grade 1 Operations 4, 5 **DT** Grade 1 Patterns and Fractions 2, 7–10, 12	**Grade 1 Number and Algebra: Whole Numbers** Test 1–9 **Grade 1 Number and Algebra: Place Value** Test 1–5 **Grade 1 Number and Algebra: Patterns** Test 1–7
		Subtract multiples of 10 from multiples of 10 in the range of 10–90; Find 10 more or 10 less than a given two-digit number.	1.NPV.5 1.NPV.6	79, 98		79, 98	**DT** Grade 1 Operations 13, 14, 17–20 **MM** Addition Sprints **MM** Subtraction Sprints	
	Comparison	Compare two two-digit numbers using symbols (<, =, >) based on the value of tens and ones in the given numbers.	1.NPV.7	56, 60, 81, 86			**DT** Grade 1 Number 7, 18, 20	**Grade 1 Number and Algebra: Place Value** Test 6
	Fraction Foundations	Partition circles and rectangles into two and four equal shares and describe the shares; Understand that decomposing into more equal pieces creates smaller pieces.	1.NPV.8	61, 66			**DT** Grade 1 Patterns and Fractions 3, 5, 6, 11, 13, 14	**Grade 1 Number and Algebra: Fractions and Money** Test 1–3, 7
Computation & Algebraic Reasoning	Operations & Properties	Add and subtract fluently within 20; Add within 100 using strategies	1.CAR.1 1.CAR.2 1.CAR.3 1.CAR.4	53, 58, 65, 68, 72, 77, 79, 85, 88, 91, 93, 95, 96, 98, 100		53, 65, 68, 72, 88, 91, 95, 96, 100	**DT** Grade 1 Operations 1, 3–10, 12, 15 **MM** Addition Sprints **MM** Subtraction Sprints	
		Demonstrate the relationship between addition and subtraction.	1.CAR.5	93, 100		93	**DT** Grade 1 Operations 16 **MM** Addition Sprints **MM** Subtraction Sprints	
	Problem Solving	Solve real-world problems involving addition, subtraction and addition of three whole numbers within 20.	1.CAR.6 1.CAR.7	53, 64, 68, 83, 85, 92, 95, 96, 98, 100		51, 53, 56, 65, 68, 72, 76, 79, 88, 91, 95, 96, 98, 100	**MM** Addition Sprints **MM** Subtraction Sprints	
	Algebraic Concepts	Apply understanding of the equal sign to determine if equations involving addition and subtraction are true or false.	1.CAR.8	76		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.CAR.9	51		51	**DT** Grade 1 Operations 2 **MM** Addition Sprints **MM** Subtraction Sprints	
Geometry & Measurement	Shapes	Understand the difference between defining attributes and non-defining attributes.	1.GM.1	8, 52, 62, 99, 140		52, 62	**DT** Grade 1 Geometry 1–3, 6–8, 10, 17–19	**Grade 1 Geometry: Shape** Test 1–6
		Create a composite shape using two-dimensional or three-dimensional shapes.	1.GM.2	69		69	**DT** Grade 1 Geometry 9, 13	
	Length & Width	Express the length of an object as a whole number of units, understand that the length of one object is equal to the number of same-size units that span the object with no gaps or overlaps; Order three objects by their length, indirectly comparing the lengths of two objects by using a third object.	1.GM.3 1.GM.4	55, 84			**DT** Grade 1 Measurement 2, 4, 13, 14,	**Grade 1 Measurement: Length and Capacity** Test 1–5
	Time & Money	Tell and write time to the nearest hour and half hour using analog clocks; understand how to read hours and minutes using digital clocks.	1.GM.5	54, 70, 87		87	**DT** Grade 1 Measurement 1, 8–10, 15, 16	**Grade 1 Measurement: Time** Test 1–6
		Identify coins by name and value; Count collections of like coins to determine their total value up to 100 cents.	1.GM.6 1.GM.7	64, 83, 92		83	**DT** Grade 1 Measurement 3, 5–7, 12	**Grade 1 Number and Algebra: Fractions and Money** Test 4–8
Data Analysis	Charts, Graphs, & Tables	Organize, represent, and interpret data with up to three categories; Ask and answer questions about the total number represented.	1.DA.1 1.DA.2	80, 97		80	**DT** Grade 1 Data 1–4, 6, 9, 10, 12–16	**Grade 1 Statistics: Data** Test 1–5

Arkansas Math Standards

GRADE 2

				Mathseeds Lesson #			Additional Mathseeds Resources	
				Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency	Assessment
Domain	**Standard**	**Expectations**	**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**
Number & Place Value	Counting & Place Value	Count within 1,000 forwards and backwards by ones, tens, and hundreds; Identify the value of hundreds, tens, and ones place in a three-digit number; Read, write, and represent whole numbers up to 1,000.	2.NPV.1 2.NPV.2 2.NPV.3	101, 105, 106, 117, 129, 133, 140		101, 105, 106, 117	**DT** Grade 2 Number 1–13, 16–24 **DT** Grade 2 Patterns and Fractions 1–4, 6–10, 13	**Grade 2 Number and Algebra: Numbers to 1,000** Test 1–7 **Grade 2 Number and Algebra: Number Patterns** Test 1–8
		Mentally add 10 or 100 to a given number in the range of 100–900 and mentally subtract 10 or 100 from a given number in the range of 100–900.	2.NPV.4	148		148	**DT** Grade 2 Operations 7, 13, 27, 28 **MM** Addition Sprints **MM** Subtraction Sprints	
	Comparison	Compare two three-digit numbers using symbols (<, =, >).	2.NPV.5	106, 112, 122		106	**DT** Grade 2 Number 14, 15	**Grade 2 Number and Algebra: Numbers to 1,000** Test 6
		Partition circles and rectangles into two, three, or four equal shares and describe the shares; Recognize that equal shares of identical wholes need not have the same shape.	2.NPV.6 2.NPV.7	132, 138		132	**DT** Grade 2 Patterns and Fractions 5, 11, 12, 14–17	**Grade 2 Number and Algebra: Fractions and Money** Test 1–4
Computation & Algebraic Reasoning	Operations & Properties & Problem Solving	Fluently add and subtract within 100; Add up to four two-digit numbers; Use number lines and rectangular arrays to solve addition and subtraction problems; Solve addition and subtraction problems within 1000; Solve one and two-step real-world problems involving addition and subtraction within 100.	2.CAR.1 2.CAR.2 2.CAR.3 2.CAR.4 2.CAR.5 2.CAR.6 2.CAR.7	103, 110, 118, 120, 124, 128, 129, 131, 134, 137, 139, 140, 142, 144, 146, 148, 150		110, 113, 118, 120, 124, 128, 134, 137, 139, 142, 144, 146, 148, 150	**DT** Grade 2 Operations 1, 2, 4, 5, 7–10, 13–28 **MM** Addition Sprints **MM** Subtraction Sprints	**Grade 2 Number and Algebra: Addition and Subtraction** Test 1–8 **Grade 2 Measurement: Informal Units** Test 8
	Algebraic Concepts	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.CAR.8	108, 166		108	**DT** Grade 2 Operations 3	**Grade 2 Number and Algebra: Numbers to 1000** Test 6
Geometry & Measurement	Shapes	Identify, describe, and draw two-dimensional shapes.	2.GM.1	102, 119, 145		102, 119, 145	**DT** Grade 2 Geometry 1, 4–6, 9–12	**Grade 2 Geometry: Shape and Movement** Test 1, 2, 5–7
		Identify and describe three-dimensional shapes.	2.GM.2	121, 169		121, 140	**DT** Grade 2 Geometry 3, 5–7	**Grade 2 Geometry: Shape and Movement** Test 3–5
	Length & Width	Estimate and measure the length of an object; Demonstrate how the length of an object does not change; Determine how much longer or shorter one object is than another.	2.GM.3 2.GM.4 2.GM.5	104, 126, 140		104, 141	**DT** Grade 2 Measurement 6, 9, 11, 13, 15, 21–24	**Grade 2 Measurement: Informal Units** Test 3–7
		Solve real-world problems involving lengths of the same units, using addition and subtraction within 100.	2.GM.6	141, 143		104, 141	**DT** Grade 2 Measurement 15, 19, 24 **MM** Addition Sprints **MM** Subtraction Sprints	**Grade 2 Measurement: Informal Units** Test 8
	Perimeter, Area, & Volume	Solve real-world and mathematical problems to find the perimeter of polygons.	2.GM.7	192				
		Partition a rectangle into rows and columns of same-size squares, counting the total number of squares to find the area.	2.GM.8	59, 112, 140, 149		59, 149		**Grade 2 Measurement: Informal Units** Test 3
	Time & Money	Tell and write time to the nearest five minutes.	2.GM.9	114, 123			**DT** Grade 2 Measurement 7, 10, 20	**Grade 2 Measurement: Time** Test 1–3
		Solve real-world problems involving addition and subtraction of time intervals in half hours or hours.	2.GM.11	127				**Grade 2 Measurement: Time** Test 3
		Count collections of mixed coins and solve real-world problems.	2.GM.12	125, 147, 159		125, 130, 147, 159, 188		**Grade 2 Number and Algebra: Fractions and Money** Test 5–8
Data Analysis	Charts, Graphs, & Tables	Organize and represent data, interpreting data with up to four categories; Ask and answer simple problems, using information presented in the data displays.	2.DA.1 2.DA.2	140, 143		143	**DT** Grade 2 Data and Chance 1, 4, 5, 7–14	**Grade 2 Statistics: Data** Test 1–6

Arkansas Math Standards

GRADE 3

				Mathseeds Lesson #			Additional Mathseeds Resources	
				Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency	Assessment
Domain	**Standard**	**Expectations**	**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**
Number & Place Value	Place Value	Round four-digit whole numbers to the nearest 10 or 100.	3.NPV.1	129, 194		194		
		Identify the value of thousands, hundreds, tens, and ones place in a four-digit number; Read and write whole numbers up to 10,000.	3.NPV.2 3.NPV.3	151, 156, 161		151, 156, 161		
	Comparison	Compare two four-digit numbers using <, = and >.	3.NPV.4	156, 161				
		Compare two fractions with the same numerator or denominator using <, = and >.	3.NPV.5	160, 175, 191				
	Fraction Foundations	Identify fractions as parts of a whole and parts of a collection or set; Partition shapes into parts with equal shares, explain the shares of each part as a unit fraction of the whole.	3.NPV.6 3.NPV.7	160, 175, 180, 191, 197		180, 191, 197		
		Identify and represent a unit fraction as a number on the number line; Identify and represent a non-unit fraction as a number on the number line, including fractions greater than one.	3.NPV.8 3.NPV.9	160, 180, 191		180		
		Decompose and compose a non-unit fraction a/b as the quantity formed by the sum of unit fractions.	3.NPV.10	191, 197		191, 197		
	Equivalent Fractions	Recognize and generate equivalent fractions.	3.NPV.11	175, 180, 191, 197		180		
Computation & Algebraic Reasoning	Operations & Properties	Add and subtract three-digit whole numbers.	3.CAR.1	163, 166, 170, 173, 178, 183		163, 170, 173, 178, 183, 195		
		Use basic fact to multiply and divide whole numbers; Apply properties of operations as strategies to multiply and divide.	3.CAR.2 3.CAR.3	71, 74, 111, 113, 115, 130, 136, 155, 158, 165, 168, 171, 176, 181, 186, 190, 193, 196, 199		71, 74, 113, 115, 130, 136, 181, 186		
		Multiply one-digit numbers by multiples of 10 ranging from 10–90.	3.CAR.4	193		193		
		Identify arithmetic patterns, explain using properties of operations appropriate to the pattern.	3.CAR.5	117, 133, 153, 195		101, 117, 133, 137, 153		
	Problem Solving	Solve real-world problems using multiplication and division within 100.	3.CAR.6	158, 168, 171, 176, 186, 190, 196, 199		168, 176, 196, 199		
		Solve two-step real-world situations using properties of operations, representing these problems using equations.	3.CAR.7	183, 188, 193		188		
	Algebraic Concepts	Determine the unknown whole number in a multiplication or division equation relating three whole numbers; Understand division as an unknown-factor problem.	3.CAR.8 3.CAR.9	165, 171				
Geometry & Measurement	Shapes	Understand that quadrilaterals in different categories may share attributes; Recognize rhombuses, rectangles, and squares as examples of quadrilaterals, identifying examples of quadrilaterals that do not belong to any of these subcategories.	3.GM.1 3.GM.3	145, 184				
		Identify perpendicular and parallel lines, as well as right angles in two-dimensional shapes.	3.GM.2	140, 177, 184				
	Length & Width	Measure lengths of objects to the nearest half and quarter inch.	3.GM.4	182, 198		182		
	Area & Volume	Describe area as the number of unit squares that cover a plane figure without gaps and overlaps; Find the area of a rectangle by modeling with unit squares; Multiply side lengths to find areas of rectangles.	3.GM.5 3.GM.6 3.GM.7	157, 200		200		
		Measure and estimate liquid volumes and masses of objects; Solve one-step real-world problems involving liquid volumes and masses of objects in the same units, using all four operations.	3.GM.8 3.GM.9	154, 172		154, 172		
	Time	Tell and write time to the nearest minute.	3.GM.10	162, 185		185		
		Solve word problems involving addition and subtraction of time intervals in minutes.	3.GM.11	162, 179, 189		179, 185, 189		
Data Analysis	Charts, Graphs, & Tables	Represent a data set with multiple categories, using a scaled picture graph, scaled bar graph, and a line plot; Solve one and two-step problems, using categorical data represented with a data display.	3.DA.1 3.DA.2	174, 187, 198		187		