Mathseeds Lessons and the Texas Essential Knowledge and Skills

KINDERGARTEN

Strand	Standards The student is expected to:	Codes	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 and operations	Count forward and backward to at least 20; read, write, and represent whole numbers from 0 to at least 20; count objects.	K.2.A, K.2.B, K.2.C	1, 2, 3, 5, 10, 11, 12, 14, 16, 17, 18, 19, 20, 25, 28, 31, 33, 41, 43, 45, 46, 48, 50		12, 19, 41, 43	**DT** Number 1, 2, 3, 4, 5, 10, 11, 12, 13, 14, 15, 16, 17, 18, 23	**Kindergarten Number** Tests 1, 2
	Recognize instantly the quantity of a small group of objects in organized and random arrangements.	K.2.D	21, 24, 30, 32, 34, 41, 49		30, 34, 41	**DT** Number 7	**Kindergarten Number** Test 2
	Know more than, less than, and equal to a given number up to 20; compare sets of objects up to at least 20 in each set using comparative language.	K.2.E, K.2.F, K.2.G, K.2.H	22, 25, 28, 31, 41, 43, 45, 46, 50		41	**DT** Number 6, 8, 9, 19, 20	**Kindergarten Number** Test 3
	Compose and decompose numbers up to 10 with objects and pictures.	K.2.I	24, 30, 32, 34, 36, 47, 49		30, 34, 36, 47	**DT** Operations 2, 6, 9	**Kindergarten Number** Test 4
	Model and solve addition and subtraction.	K.3.A, K.3.B, K.3.C	24, 30, 32, 36, 47, 49		30, 34, 36, 47	**DT** Operations 1–14, 16–20 **MM** Addition Sprints **MM** Subtraction Sprints	**Kindergarten Operations** Tests 1, 2, 3, 4
	Identify U.S. coins by name, including pennies, nickels, dimes, and quarters.	K.4					**Kindergarten Number** Test 5
Algebraic reasoning	Recite numbers up to at least 100 by ones and tens beginning with any given number.	K.5	8, 20, 25, 28, 31, 50		8		
Geometry and Measurement	Identify and classify two-dimensional shapes and attributes.	K.6.A, K.6.D, K.6.E	4, 6, 9, 15, 23, 37		6, 15, 23	**DT** Geometry 1–8, 19, 20	**Kindergarten Geometry** Tests 1, 3
	Identify and classify three-dimensional shapes and attributes.	K.6.B, K.6.C, K.6.E	35, 44			**DT** Geometry 15–23	**Kindergarten Geometry** Tests 2, 3
	Measure size and length and compare two objects.	K.7.A, K.7.B	13, 26			**DT** Measurement 2, 3, 5, 6, 9, 10	**Kindergarten Measurement** Tests 1, 2, 3
	Measure capacity, and compare two objects.	K.7.A, K.7.B	38			**DT** Measurement 11, 15, 16	**Kindergarten Measurement** Test 5
	Measure weight and compare two objects.	K.7.A, K.7.B	29			**DT** Measurement 7, 8	**Kindergarten Measurement** Test 4
Data analysis	Collect, sort, and organize data into two or three categories.	K.8.A	8, 23		6, 8, 15, 23, 27	**DT** Data 1–10	**Kindergarten Data** Test 1
	Use data to create real-object and picture graphs; draw conclusions.	K.8.B, K.8.C				**DT** Data 3–10	**Kindergarten Data** Test 2

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GRADE 1

			Mathseeds Lesson #			Additional Mathseeds Resources	
			Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency	Assessment
Strand	**Standards The student is expected to:**	**Codes**	**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 and operations	Recognize a quantity instantly; compose and decompose numbers up to 120 using objects, pictures, expanded and standard forms.	1.2.A, 1.2.B, 1.2.C	67, 75, 79, 88, 98		67, 79, 88	**DT** Grade 1 Number 2, 5, 8, 9, 10, 12, 17, 19, 22, 24	**Grade 1 Number and Algebra: Whole Numbers** Tests 1, 2, 6
	Order and compare numbers including using the symbols <, >, =	1.2.D, 1.2.E, 1.2.F, 1.2.G	56, 60, 81, 86		60, 80, 83	**DT** Grade 1 Number 1, 3, 4, 6, 7, 11, 13, 14, 15, 16, 18, 20, 21, 23	**Grade 1 Number and Algebra: Whole Numbers** Tests 3, 4, 5, 7, 8, 9
	Develop an understanding of addition and subtraction situations in order to solve problems.	1.3.A, 1.3.B, 1.3.C, 1.3.D, 1.3.E, 1.3.F	51, 53, 58, 65, 72, 83, 85, 91, 92, 95, 96			**DT** Grade 1 Operations 1–20 **MM** Addition Sprints **MM** Subtraction Sprints	**Grade 1 Number and Algebra: Operations** Tests 1–6
	Identify and write the cents symbols to name the U.S. coins: pennies, nickels, dimes, and quarters.	1.4.A, 1.4.B	64			**DT** Grade 1 Measurement 3, 5, 6, 7, 12	**Grade 1 Number and Algebra: Fractions and Money** Tests 4–6
Algebraic reasoning	Identify and apply number patterns to describe relationships.	1.5.A, 1.5.B, 1.5.C	77, 90		77		**Grade 1 Patterns and Fractions** Tests 1–7
	Understand that the equal sign represents a relationship where expressions on each side of the equal sign represent the same value(s).	1.5.E	76			**MM** Addition Sprints **MM** Subtraction Sprints	
	Determine the unknown number in an addition or subtraction equation.	1.5.F	100			**DT** Grade 1 Operations 12 **MM** Addition Sprints **MM** Subtraction Sprints	
	Apply properties of operations to add and subtract two or three numbers.	1.5G	93		93	**DT** Grade 1 Operations 2 **MM** Addition Sprints **MM** Subtraction Sprints	
Geometry and Measurement	Classify, sort, identify and compose two-dimensional shapes.	1.6.A, 1.6.B, 1.6.C, 1.6.D, 1.6.F	52, 69		69	**DT** Grade 1 Geometry 1, 2, 3, 6, 10, 13	**Grade 1 Geometry: Shape** Tests 1, 2, 5, 6
	Identify three-dimensional solids.	1.6.E	62, 99			**DT** Grade 1 Geometry 7, 8, 17, 18, 19	**Grade 1 Geometry: Shape** Tests 3, 4, 5, 6
	Partition two-dimensional shapes into two and four fair shares.	1.6.G, 1.6.H	61, 66			**DT** Grade 1 Patterns and Fractions 1, 3, 5, 11, 13	**Grade 1 Number and Algebra: Fractions and Money** Tests 1–3
	Accurately measure and compare length using informal units.	1.7.A, 1.7.B, 1.7.C, 1.7.D	84			**DT** Grade 1 Measurement 2, 4, 13, 14	**Grade 1 Measurement: Length** Tests 1–5
	Tell time to hour and half hour.	1.7.E	54, 70, 87		87	**DT** Grade 1 Measurement 1, 8, 9, 10, 15	**Grade 1 Measurement: Time** Tests 1–5
Data analysis	Collect, sort, and organize data into two or three categories.	1.8.A,	97			**DT** Grade 1 Data 1, 2, 3	**Grade 1 Statistics: Data** Tests 1, 2
	Use data to create real-object and picture graphs; draw conclusions.	1.8.B, 1.8.C	80		80	**DT** Grade 1 Data 4, 9, 10, 12–16	**Grade 1 Statistics: Data** Tests 3, 4, 5

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GRADE 2

			Mathseeds Lesson #			Additional Mathseeds Resources	
			Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency	Assessment
Strand	**Standards The student is expected to:**	**Codes**	**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 and operations	Compose and decompose numbers up to 1,200; generate a number that is greater than or less than; order and compare numbers; use number lines.	2.2.A, 2.2.B, 2.2.C, 2.2.D, 2.2.E, 2.2.F	101, 105, 106, 117, 122, 129		105, 112, 132, 133	**DT** Grade 2 Number 1–24	**Grade 2 Number and Algebra: Numbers to 1000** Tests 1–7
	Recognize and represent fractional parts, including halves, fourths, and eighths.	2.3.A, 2.3.B, 2.3.C, 2.3.D	132, 138		132	**DT** Grade 2 Patterns and Fractions 5, 11, 12, 14, 15, 16, 17	**Grade 2 Number and Algebra: Fractions and Money** Tests 1–4
	Develop and use strategies to solve addition and subtraction problems with efficiency and accuracy.	2.4.A, 2.4.B, 2.4.C, 2.4.D	103, 110, 120, 124, 128, 134, 142, 144, 146, 148, 150		124, 128, 134, 142, 144, 146, 150	**DT** Grade 2 Operations 1, 2, 4, 5, 14–18, 20–28 **MM** Addition Sprints **MM** Subtraction Sprints	**Grade 2 Number and Algebra: Addition and Subtraction** Tests 1–7
	Determine the value of coins; use the cent symbol, dollar sign, and the decimal point.	2.5.A, 2.5.B	125, 147		125, 147	**DT** Grade 2 Measurement 9, 11, 12, 23, 24	**Grade 2 Number and Algebra: Fractions and Money** Tests 5–8
	Connect repeated addition and subtraction to multiplication and division situations that involve equal groupings and shares.	2.6.A, 2.6.B	111, 113, 115, 130, 136		113, 130, 136	**DT** Grade 2 Operations 6, 8, 9, 10, 11, 12, 19 **MM** Multiplication Sprints **MM** Division Sprints	**Grade 2 Number and Algebra: Equal Groupings** Tests 1–5
Algebraic reasoning	Determine whether a number up to 40 is even or odd; use an understanding of place value to determine the number that is 10 or 100 more or less.	2.7.A, 2.7.B	108, 117, 133		133	**DT** Grade 2 Operations 3, 7, 13	**Grade 2 Patterns and Fractions: Number Patterns** Tests 1–7
	Represent and solve addition and subtraction word problems where unknowns may be any one of the terms in the problem.	2.7.C	118, 131, 137, 139, 147		118, 139		**Grade 2 Number and Algebra: Addition and Subtraction** Test 9
Geometry and measurement	Create, classify, and sort two-dimensional shapes.	2.8.A, 2.8.C, 2.8.D	119, 145		102, 119, 121, 140	**DT** Grade 2 Geometry 4, 10	**Grade 2 Geometry: Shape** Tests 1, 2, 5
	Decompose two-dimensional shapes such as cutting out a square from a rectangle, dividing a shape in half, or partitioning a rectangle into identical triangles and identify the resulting geometric parts.	2.8.E	102		102		
	Identify three-dimensional solids.	2.8.B, 2.8.D	121		121	**DT** Grade 2 Geometry 3, 5, 6, 7	**Grade 2 Geometry: Shape** Tests 3, 4, 5
	Select and use units to describe length; solve word problems involving length.	2.9.A, 2.9.B, 2.9.C, 2.9.D, 2.9.E	104, 126, 141			**DT** Grade 2 Measurement 6, 13, 14, 15, 21, 22	**Grade 2 Measurement: Informal Units** Tests 1, 2
	Use concrete models of square units to find the area of a rectangle.	2.9.F	112, 149				**Grade 2 Measurement: Informal Units** Test 3
	Read and write time to the nearest one-minute increment using analog and digital clocks.	2.9.G	109, 114, 123, 127			**DT** Grade 2 Measurement 7, 10, 20	**Grade 2 Measurement: Time** Tests 1–3
Data analysis	Organize data from bar graphs and pictographs to make it useful for interpreting information and solving problems; write and solve one-step word problems; draw conclusions.	2.10.A, 2.10.B, 2.10.C, 2.10.D	143			**DT** Grade 2 Data and Chance 1, 7, 8, 9, 10, 11, 13, 14	**Grade 2 Statistics: Data** Tests 1–6

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GRADE 3

Strand	Standards The student is expected to:	Codes	Mathseeds Lesson #			Additional Mathseeds Resources
			Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency
			Online Lesson, Printable Resources, & Problem Solving Tasks	End-of-lesson Quiz	Critical Thinking and Problem Solving Interactives	Mental Minute (MM)
Number and operations	Represent and compare whole numbers and understand relationships related to place value.	3.2.A, 3.2.B, 3.2.C, 3.2.D	151, 156, 161		161	
	Represent fractions greater than zero and less than or equal to one with denominators of 2, 3, 4, 6, and 8; compose and decompose fractions; represent equivalent fractions; solve problems involving fractions.	3.3.A, 3.3.B, 3.3.C, 3.3.D, 3.3.E, 3.3.F, 3.3.G, 3.3.H	175, 191, 197		175, 191, 197	
	Solve with fluency one-step and two-step problems involving addition and subtraction within 1,000.	3.4.A	163, 170, 173, 178		170, 172, 178, 183, 188, 195	**MM** Addition Sprints **MM** Subtraction Sprints
	Round to the nearest 10 or 100.	3.4.B	194		194	
	Determine the value of a collection of coins and bills.	3.4.C	159		159	
	Determine the total number of objects in arrays; represent multiplication facts; recall facts to multiply up to 10 by 10 with automaticity; use strategies and algorithms to multiply a two-digit number by a one-digit number.	3.4.D, 3.4.E, 3.4.F, 3.4.G	155, 158, 171, 176, 181, 186, 190, 193		176, 181, 186, 193	**MM** Multiplication Sprints
	Determine the number of objects in equal shares of a set; determine if a number is even or odd; determine a quotient using the relationship between multiplication and division.	3.4.H, 3.4.I, 3.4.J	165, 166			**MM** Division Sprints
	Solve one-step and two-step problems involving multiplication and division within 100 using strategies based on objects; pictorial models, including arrays, area models, and equal groups; properties of operations; or recall of facts.	3.4.K	168, 196		168, 196	
Algebraic reasoning	Represent one- and two-step problems involving addition and subtraction; represent and solve one- and two-step multiplication and division problems.	3.5.A, 3.5.B	183, 188, 195		183, 188, 195	
	Determine the unknown whole number in a multiplication or division equation relating three whole numbers when the unknown is either a missing factor or product.	3.5.D	199		199	
Geometry and measurement	Classify and sort two- and three-dimensional figures; use attributes to recognize rhombuses, parallelograms, trapezoids, rectangles, and squares as examples of quadrilaterals and draw examples of quadrilaterals that do not belong to any of these subcategories.	3.6.A, 3.6.B	169, 184		184	
	Determine the area of rectangles using multiplication; determine area figure using the additive property of area.	3.6.C, 3.6.D	157, 200			
	Decompose two congruent two-dimensional figures into parts with equal areas and express the area of each part as a unit fraction of the whole.	3.6.E	160			
	Represent fractions of halves, fourths, and eighths as distances from zero on a number line.	3.7.A	180		180	
	Determine the perimeter of a polygon or a missing length.	3.7.B	192			
	Determine the solutions to problems involving addition and subtraction of time intervals in minutes.	3.7.C	162, 179, 185, 189			
	Determine when it is appropriate to use measurements of liquid volume (capacity) or weight; determine liquid volume (capacity) or weight.	3.7.D, 3.7.E	154, 172		154, 172	
Data analysis	Solve problems by collecting, organizing, displaying, and interpreting data.	3.8.A, 3.8.B	174, 187, 198			