KINDERGARTEN			Mathseeds Lesson #			Additional Mathseeds Resources		
				Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency	Assessment
Strand	General Learning Outcomes	Specific Learning Outcomes	Codes	Online Lesson and Printable Resources	End-of-lesson Quiz	Critical Thinking and Problem Solving Worksheets	Driving Tests (DT) Mental Minute (MM)	Printable Achievement Standards Assessment
	Develop number sense.	Say the number sequence by 1s, starting anywhere from 1 to 30 and from 10 to 1.	K.N.1	10, 16, 18, 20, 21, 25, 28, 31			DT Early Number 2, 4, 5, 9	
		Subitize and name familiar arrangements of 1 to 6 dots (or objects).	K.N.2					
NUMBER		Relate a numeral, 1 to 10, to its respective quantity.	K.N.3				DT Early Number 1, 6, 7	
		Represent and describe numbers 2 to 10 in two parts, concretely and pictorially.	K.N.4	1, 2, 3, 5, 7, 11, 12, 14, 1	7, 19, 33		DT Early Number 3, 10	
		Demonstrate an understanding of counting to 10 by indicating that the last number said identifies "how many", and showing that any set has only one count.	K.N.5					
		Compare quantities, 1 to 10, using one-to-one correspondence and by ordering numbers representing different quantities.	K.N.6	22			DT Early Number 8	Kindergarten Number Test 3
PATTERNS AND RELATIONS (Patterns)	Use patterns to describe the world and solve problems.	Demonstrate an understanding of repeating patterns (two or three elements) by identifying, reproducing, extending,and creating patterns.	K.PR.1	8, 27, 37			DT Early Patterns 1–9	
SHAPE AND SPACE (Measurement)	Use direct or indirect measurement to solve problems.	Use direct comparison to compare two objects based on a single attribute, such as length (height).	K.SS.1	13, 26		DT Early Measurement 2, 3, 5, 6, 9, 10	Kindergarten Measurement Tests 1, 2, 3	
		Use direct comparison to compare two objects based on a single attribute, such as mass (weight).	K.SS.1	29			DT Early Measurement 7, 8, 11, 12	Kindergarten Measurement Test 4
		Use direct comparison to compare two objects based on a single attribute, such as volume (capacity).	K.SS.1	38			DT Early Measurement 15, 16, 20	Kindergarten Measurement Test 5
SHAPE AND SPACE (3-D Objects and 2-D Shapes)	Describe the characteristics of 3-D objects and 2-D shapes, and analyze the relationships among them.	Sort 3-D objects, using a single attribute.	K.SS.2	35, 44	0		DT Early Geometry 15–18, 21–23	Kindergarten Geometry Tests 2, 3





GRADE 1				Mathseeds Lesson #			Additional Mathseeds Resources		
				Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency	Assessment	
Strand	General Learning Outcomes	Specific Learning Outcomes	Codes	Online Lesson and Printable Resources	End-of-lesson Quiz	Critical Thinking and Problem Solving Worksheets	Driving Tests (DT) Mental Minute (MM)	Printable Achievement Standards Assessment	
		Say the number sequence by 1s forward and backward (0 to 100); by 2s to 30; by 5s and 10s to 100.	1.N.1		1				
		Subitize and name familiar arrangements of 1 to 10 dots.	1.N.2						
		Demonstrate an understanding of counting.	1.N.3	_			DT Grade 1 Number 1–6, 10,	Grade 1 Number and Algebra: Whole Numbers	
		Represent and describe numbers to 20.	1.N.4				11, 13, 16, 21 DT Grade 1 Patterns and	Tests 1, 3–9 Grade 1 Number and Algebra: Patterns Tests 1, 4, 6, 7	
		Compare and order sets up to 20.	1.N.5	56, 60, 67, 75, 77, 79, 81,	86, 90		Fractions 7–10		
	Develop number	Estimate quantities to 20 by using referents.	1.N.6	_					
NUMBER	sense.	Demonstrate how a number up to 30 can be represented by a variety of equal groups with and without singles.	1.N.7						
		Identify the number, up to 20, that is one more, two more, one less, and two less than a given number.	1.N.8				DT Grade 1 Operations 4–12, 16	Grade 1 Number and Algebra: Operations Tests 1–3	
		Demonstrate an understanding of addition of numbers with answers to 20 and their corresponding subtraction facts.	1.N.9	51, 53, 58, 65					
		Demonstrate how a number up to 30 can be represented by a variety of equal groups with and without singles.	1.N.10	68, 72, 85, 91, 93, 100			DT Grade 1 Operations 1–3 MM Addition Sprints MM Subtraction Sprints		
PATTERNS AND RELATIONS (Patterns)	Use patterns to describe the world and solve problems.	Demonstrate an understanding of repeating patterns (two to four elements). Translate repeating patterns from one representation to another.	1.PR.1, 1.PR.2				DT Grade 1 Patterns and Fractions 1, 2, 4		
PATTERNS AND RELATIONS (Variables and Equations)	Represent algebraic expressions in multiple ways.	Describe equality as a balance and inequality as an imbalance, concretely and pictorially (0 to 20). Record equalities using the equal symbol (0 to 20).	1.PR.3, 1.PR.4	76					
		Demonstrate an understanding of measurement as a process of comparing by identifying attributes, ordering, making statements of comparison and matching. (length)	1.SS.1	55, 73, 84			DT Grade 1 Measurement 2, 4, 13, 14	Grade 1 Measurement: Length Tests 1–5	
SHAPE AND SPACE (Measurement)	Use direct or indirect measurement to solve problems.	Demonstrate an understanding of measurement as a process of comparing by identifying attributes, ordering, making statements of comparison, and filling. (capacity)	1.SS.1	89			DT Grade 1 Measurement 11, 17–19		
		Demonstrate an understanding of measurement as a process of comparing by identifying attributes, ordering, making statements of comparison, and covering. (area)	1.SS.1	59					
	Describe the characteristics of	Sort 3-D objects and 2-D shapes using one attribute, and explain the sorting rule.	1.\$\$.2	52, 62			DT Grade 1 Geometry 1–3, 6–8, 10, 17–19	Grade 1 Geometry: Shape Tests 1–6	
SHAPE AND SPACE (3-D Objects and 2-D Shapes)	3-D objects and 2-D shapes, and analyze the relationships among them.	Replicate composite 2-D shapes and 3-D objects.	1.\$\$.3	99			DT Grade 1 Geometry 9, 13	Grade 1 Geometry: Shape Test 7	
		Compare 2-D shapes to parts of 3-D objects in the environment.	1.SS.4	69	77				



	GRADE 2			Mathseeds Lesson #			Additional Mathseeds Resources			
					Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency	Assessment	
	Strand	General Learning Outcomes	Specific Learning Outcomes	Codes	Online Lesson and Printable Resources	End-of- lesson Quiz	Critical Thinking and Problem Solving Worksheets	Driving Tests (DT) Mental Minute (MM)	Printable Achievement Standards Assessment	
			Say the number sequence 0 to 100 by 2s, 5s and 10s, forward and backward.	2.N.1	117			DT Grade 2 Patterns and Fractions 1–3		
			Demonstrate if a number (up to 100) is even or odd.	2.N.2	108			DT Grade 2 Operations 3		
			Describe order or relative position using ordinal numbers.	2.N.3	63			DT Early Number 24, 25		
			Represent and describe numbers to 100.	2.N.4				DT Grade 1 Number 8, 12, 22		
			Compare and order numbers up to 100.	2.N.5	122			DT Grade 1 Number 7, 14, 18, 20, 23		
		Develop number	Estimate quantities to 100 using referents.	2.N.6	129					
	NUMBER	sense.	Illustrate the meaning of place value for numbers to 100.	2.N.7				DT Grade 1 Number 9, 17, 19, 24	Grade 1 Number and Algebra: Place Value Tests 1–6	
			Demonstrate an understanding of addition (limited to 1- and 2-digit numerals) with answers to 100 and the corresponding subtraction.	2.N.9	103, 110, 118, 120, 124, 128, 131, 139, 150			DT Grade 2 Operations 7, 13–17, 20, 22, 23 MM Addition Sprints MM Subtraction Sprints	Grade 1 Number and Algebra: Operations Tests 4–6 Grade 2 Number and Algebra: Addition and Subtraction Tests 2–6	
			Apply mental mathematics strategies to develop recall of basic addition facts to 18 and related subtraction facts.	2.N.10	142			DT Grade 2 Operations 1, 2, 4, 5	Grade 2 Number and Algebra: Addition and Subtraction Test 1	
	PATTERNS AND RELATIONS (Patterns)	Use patterns to describe the world and solve problems.	Demonstrate an understanding of increasing patterns (numbers to 100).	2.PR.2	133			DT Grade 2 Patterns and Fractions 6–9	Grade 2 Number and Algebra: Number Patterns Tests 1–3	
SHAPE AND SPACE		Use direct or indirect measurement to solve problems.	Relate the number of days to a week and the number of months to a year in a problem-solving context.	2.\$\$.1	109			DT Grade 2 Measurement 1–5, 14, 16		
			Relate the size of a unit of measure to the number of non-standard units used to measure length. Compare and order objects by length, height, distance around. Measure length to the nearest non-standard unit.	2.SS.2, 2.SS.3, 2.SS.4	104, 126, 141			DT Grade 2 Measurement 6, 9, 11, 13, 15, 21, 22, 23, 24	Grade 2 Measurement: Length Tests 1, 2	
	(Measurement)		Relate the size of a unit of measure to the number of non-standard units used to measure mass. Compare and order objects by mass (weight).	2.SS.2, 2.SS.3	135			DT Grade 2 Measurement 17, 18		
			Demonstrate that changing the orientation of an object does not alter the measurements of its attributes.	2.\$\$.5	102					
		Describe the characteristics of 3-D objects and 2-D shapes, and analyze the relationships among them.	Sort 2-D shapes and 3-D objects, using two attributes, and explain the sorting rule.	2.\$\$.6	145			DT Grade 2 Geometry 3–7, 10	Grade 2 Geometry: Shape Tests 1–5	
	SHAPE AND SPACE (3-D Objects and		Describe, compare and construct 3-D objects, including cubes, spheres, cones, cylinders, prisms, and pyramids.	2.SS.7				DT Grade 2 Geometry 5-7, 10	Grade 2 Geometry: Shape Tests 1, 2	
2-D Shapes)	2-D Shapes)		Describe, compare and construct 2-D shapes, including triangles, squares, rectangles, circles.	2.55.8	119			DT Grade 2 Geometry 3	Grade 2 Geometry: Shape Tests 3, 4	
			Identify 2-D shapes as parts of 3-D objects in the environment.	2.\$\$.9	121		5	DT Grade 2 Geometry 4		
	STATISTICS AND	Collect, display and	Gather and record data about self and others to answer questions.	2.SP.1			<u>e</u> n		Grade 1 Statistics: Data Test 1	
PROBABILITY (Data Analysis)	analyze data to solve problems.	Construct and interpret concrete graphs and pictographs to solve problems.	2.SP.2	143	A.		DT Grade 2 Data 4, 5, 7-14	Grade 1 Statistics: Data Tests 2–5		



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		G	RADE 3		Mathseeds Lesson #		esson #
		1			Knowledge and Skills	Assessment	Higher Order Thinking Skills
	Strand	General Learning Outcomes	Specific Learning Outcomes	Codes	Online Lesson and Printable Resources	End-of- lesson Quiz	Critical Thinking and Problem Solving Worksheets
			Say the number sequence forward and backward from 0 to 1000 by 10s, 100s, 5s or 25s, and from 0 to 100 by 3s and 4s.	3.N.1			
			Represent and describe numbers to 1000.				
			Compare and order numbers to 1000.				
			Estimate quantities less than 1000, using referents.		194		
	NUMBER		Illustrate the meaning of place value for numerals to 1000.				
	NOMBER	Develop number sense.	Describe and apply mental mathematics strategies for adding and subtracting two 2-digit numerals.		173		
			Demonstrate an understanding of addition and subtraction with answers to 1000 (limited to 1-, 2- and 3-digit numerals).		170, 178, 183		
			Demonstrate an understanding of multiplication to 5 × 5.		155, 158, 168, 176		
			Demonstrate an understanding of division (limited to division related to multiplication facts up to 5×5).		165, 190, 196		
			Demonstrate an understanding of fractions.	3.N.13	160, 175, 180, 191, 197		
	PATTERNS AND RELATIONS (Patterns)	Use patterns to describe the world and solve problems.	Demonstrate an understanding of increasing patterns (to 1000). Demonstrate an understanding of decreasing patterns (from 1000).	3.PR.1, 3.PR.2	153, 166, 195		
	PATTERNS AND RELATIONS (Variables and Equations)	Represent algebraic expressions in multiple ways.	Solve one-step addition and subtraction equations involving symbols representing an unknown number.	3.PR.3	163		
			Relate the passage of time to common activities, using non-standard and standard units.		179		
			Relate the number of seconds to a minute, the number of minutes to an hour and the number of days to a month.		162, 185, 189		
	SHAPE AND SPACE (Measurement)	Use direct or indirect measurement to solve problems.	Demonstrate an understanding of measuring length (cm, m).		182		
			Demonstrate an understanding of measuring mass (g, kg).		172		
			Demonstrate an understanding of perimeter of regular and irregular shapes.		192		
	SHAPE AND SPACE	Describe the characteristics of 3-D	Describe 3-D objects according to the shape of the faces and the number of edges and vertices.		169		
	(3-D Objects and 2-D Shapes)	objects and 2-D shapes, and analyze the relationships among them.	Sort regular and irregular polygons according to the number of sides.		184		
		Collect, display and	Collect first-hand data and organize it using tally marks, line plots, charts, lists, to answer questions.		174, 198		
X	PROBABILITY analyze data to solve		Construct, label and interpret bar graphs to solve problems.		187		



Additional Mathseeds Resources

Fluency	Assessment
Driving Tests (DT) Mental Minute (MM)	Printable Achievement Standards Assessment
	Grade 2 Number and Algebra: Numbers to 1000 Test 4
	Grade 2 Number and Algebra: Numbers to 1000 Tests 1–3, 8
	Grade 2 Number and Algebra: Numbers to 1000 Test 7
	Grade 2 Number and Algebra: Numbers to 1000 Test 5
MM Addition Sprints MM Subtraction Sprints	
	Grade 2 Number and Algebra: Addition and Subtraction Tests 7–9
MM Multiplication Sprints	Grade 2 Number and Algebra: Equal Groups Tests 1, 3, 5
MM Division Sprints	Grade 2 Number and Algebra: Equal Groups Tests 2, 4
	Grade 2 Number and Algebra: Number Patterns Tests 4–7
	Grade 2 Measurement: Time Tests 1–7
	Grade 2 Measurement: Length Tests 4, 6
	Grade 2 Statistics: Data Tests 1–3, 5
	Grade 2 Statistics: Data Test 4
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