

			Mathseeds Lesson #			Additional Resources	
	KINDEROARTEN		Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency	Assessment
Concept	Competencies	Standard	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
	Rote count to 100.						
Numercal	Count forward beginning from a given number within the known sequence (instead of having to begin at 1).	CC.2.1.K.A.1	1, 2, 3, 5, 7, 10, 11, 12, 14, 16, 17, 18, 19, 20, 21, 25, 28, 33, 41, 43, 45, 46, 48, 50, 56, 63				Kindergarten Number Test 1, 2
Sequence	Name numerals 0–20.				12, 41, 46, 63	DT Early Number 1–7, 9–19, 24, 25	
	Represent a number of objects with a written numeral 0–20.						
	Uses one-to-one correspondence when counting to 20.						
Object Quantity	State the total number of objects counted, demonstrating understanding that that last number named tells the number of objects counted.	CC.2.1.K.A.2					
	Understand that each successive number name refers to a quantity that is one larger.						
Number	Identify whether the number of objects in one group is greater than, less than, or equal to the number of objects in another group, e.g., by using matching and counting strategies.	CC.2.1.K.A.3	22		38	DT Early Number 8, 20	Kindergarten Number Test 3
Comparison	Compare two numbers between 1 and 10 presented as written numerals.						
Place Value	Compose and decompose numbers up to 19 to ten and ones by using objects or drawings, and record each composition or decomposition by a drawing or equation.	CC.2.1.K.B.1	88		88		Kindergarten Number Test 4
	Represent addition and subtraction with objects, fingers, mental images, and drawings, sounds acting out situations, verbal explanations, expressions, or equations.						
Addition and	Decompose numbers less than or equal to 10 into pairs in more than one way, by using objects or drawings, and record each decomposition by a drawing or equation.		24, 30, 31, 32, 34, 36, 40, 47, 49, 58, 68		19, 30, 31, 34, 36, 40, 43, 47	DT Early Operations 1–20, 22–25 MM Addition Sprints MM Subtraction Sprints	Kindergarten Operations Test 1–4
Subtraction	Find the number that makes 10, for any number from 1 to 9, when added to the given number, by using objects or drawings, and record the answer with a drawing or equation	CC.2.2.K.A.1					
	Solve addition and subtraction word problems, and add and subtract within 10, by using objects or drawings to represent the problem.						
	Identify shapes as two-dimensional or three-dimensional.						Kindergarten Geometry
	Name shapes regardless of their orientations or overall size.		4, 6, 9, 15, 23, 35, 44			DI Early Geometry 5, 6, 19–22	² Test 1, 2
Two- and	Use simple shapes to compose larger shapes.		69		69	DT Early Geometry 12	Kindergarten Geometry Test 4
Three– dimensional shapes	Describe objects in the environment using names of shapes and describe the relative positions of these objects using terms such as above, below, beside, in front, behind, and next to.	CC.2.3.K.A.1 CC.2.3.K.A.2	57, 78		57	DT Early Geometry 9–11, 13–18	Kindergarten Geometry Test 5, 6 Grade 1 Geometry: Shape Test 7
	Analyze and compare two– and three–dimensional shapes, in different sizes and orientations, using informal language to describe their similarities, differences, parts and other attributes.					DT Early Geometry 1–4, 7	Kindergarten Geometry Test 3
	Model shapes in the world by building shapes from components and drawing shapes.				6, 15, 23	DT Early Geometry 8, 23	
	Describe measurable attributes of objects, such as length. Describe several measurable attributes of a single object. Compare two objects with a measurable attribute in common and describe the difference.	СС.2.4.К.А.1	26, 55			DT Early Measurement 5, 6, 9, 10	Kindergarten Measurement Test 1, 2 Grade 1 Measurement: Length and Capacity Test 1–5
Measureable	Describe measurable attributes of objects, such as weight. Describe several measurable attributes of a single object. Compare two objects with a measurable attribute in common and describe the difference.		29, 73, 135, 172 59, 112 38, 89, 116, 154		135, 172	DT Early Measurement 7, 8, 11, 12 DT Grade 2 Measurement 18, 19	Kindergarten Measurement Test 4 Grade 2 Measurement: Informal Units Test 6,7
Attributes	Describe measurable attributes of objects, such as area. Describe several measurable attributes of a single object. Compare two objects with a measurable attribute in common and describe the difference.				59		Grade 2 Measurement: Informal Units Test 3
	Describe measurable attributes of objects, such as capacity. Describe several measurable attributes of a single object. Compare two objects with a measurable attribute in common and describe the difference.				154	DT Early Measurement 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
Object Classification and Count	Classify up to 20 objects using one attribute into categories; display the number of objects in each category; count and compare the quantities of each category and describe the difference.	CC.2.4.K.A.4		9		DT Early Data 1–10	Kindergarten Data Test 1, 2
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Additional Resources

	GRADE 1		Mathseeds Lesson #			Additional Resources		
			Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency	Assessment	
Concept	Competencies	Standard	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	
Numercal Sequence	Count to 120, starting at any number less than 120. Read and write numerals up to 120 and repesent a number of objects with a written numeral.	CC.2.1.1.B.1	60, 67, 75, 81, 86		60, 67, 75, 81	DT Early Number 21–23 DT Grade 1 Number 1–6, 8–17, 19–24	Grade 1 Number and Algebra: Whole Numbers Test 1–6	
Place Value	Compare two two-digit numbers based on meanings of the tens and ones digits, recording the results of comparisons with the symbols >, =, and <.	CC.2.1.1.B.2 CC.2.1.1.B.3				DT Grade 1 Number 7, 18	Grade 1 Number and Algebra: Whole Numbers Test 7 Grade 1 Number and Algebra: Place Value Test 6	
	Add within 100, including adding a two–digit number and a one–digit number, and adding a two–digit number and a multiple of 10 using concrete models or drawings. Relate the strategy to a written method and explain the reasoning used.		79, 95, 98		95, 98	DT Grade 1 Operations 13, 15, 17–20	Grade 1 Number and Algebra: Operations Test 6	
	Subtract mulitples of 10 in the range 10–90, using concrete models or drawings. Relate the strategy to a written method and explain the reasoning used.		98		98	DT Grade 1 Operations 14, 20	Place Value Test 1–5	
Addition and Subtraction	Use addition and subtraction within 20 to solve word problems by using objects, drawings, and equations with a symbols for the unknown number to represent the problem.		53, 65, 68, 72, 76, 85, 91, 96, 100 53, 56, 65, 68, 7 91, 96			DT Grade 1 Operations 1–12 MM Addition Sprints MM Subtraction Sprints	Grade 1 Number and Algebra: Operations Test 1–4	
	Add and subtract within 20. Use strategies such as counting on; making ten; decomposing a number leading to a ten; using the relationship between addition and subtraction and creating equivalent but easier or known sums.	CC.2.2.1.A.1			53, 56, 65, 68, 72, 76, 85, 91, 96			
	Solve word problems that call for addition of three whole numbers whose sum is less than or equal to 20.		51		51, 118			
Properties of Operations	Apply properties of operations as strategies to add and subtract.	CC.2.2.1.A.2	93		93	DT Grade 1 Operations 16	Grade 1 Number and Algebra: Operations Test 5	
							Grade 1 Geometry: Shane	
Two- and three-	Compose two and three-dimensional shapes and distinguish between attributes.	CC.2.3.1.A.1	52, 62, 99, 121, 169, 184		52, 121		Test 1–5	
dimensional	Build and draw shapes to possess attributes.						Grade 1 Geometry: Shape Test 6	
Fraction	Partition circles and rectangles into two and four equal shares. Understand that decomposing into more equal shares creates smaller shares.	CC.2.3.1.A.2	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	
	Order three objects by length; compare the lengths of two objects indirectly by using a third object.		84			DT Grade 1 Measurement 2, 4, 13, 14		
Measurement	Use standard and non–standard units of measure to express the length of an objects a whole number of length units.	CC.2.4.1.A.1						
	Understand that the length measurement of an object is the number of same–size length units.							
Time	Tell and write time in hours and half hours using analog and digital clocks.	CC.2.4.1.A.2	39, 54, 70, 87		87	DT Early Measurement 17 DT Grade 1 Measurement 1, 8–10, 15, 16	Grade 1 Measurement: Time Test 1–6	
Represent and Interpret Data	Organize, represent, and interpret data with up to three categories. Ask and answer questions about the data.	CC.2.4.1.A.4	80, 97		80	DT Grade 1 Data 1–3, 9, 10, 12–16	Grade 1 Data Test 1–5	

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		GRADE 2 Mathseeds Lesson #			ŧ	Additional Resources			
			Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency	Assessment		
Concept	Competencies	Standard	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		
Place Value	Understand that the three-digits of a three-digit number represent amounts of hundreds, tens and ones.		105	•	105, 106, 108	DT Grade 2 Number 21, 22	Grade 2 Number and Algebra: Numbers to 1000 Test 5, 6		
	Compare two three digit numbers based on meanings of the hundreds, tens, and ones digits, using >, =, and < symbols to record the results of comparisons.	-	122			DT Grade 2 Number 14, 15	Grade 2 Number and Algebra: Numbers to 1000 Test 6		
	Count within 1000; skip–count by 5s, 10s, and 100s.	CC.2.1.2.B.1 CC.2.1.2.B.2	77, 79, 90, 101, 106, 117		117	DT Grade 1 Patterns and Fractions 7–10 DT Grade 2 Number 1–6, 9–13, 16, 17 DT Grade 2 Patterns and Fractions 1–4, 8–10, 13	Grade 1 Number and Algebra: Whole Numbers Test 8, 9 Grade 1 Number and Algebra: Patterns Test 1–7		
	Read and write numbers to 1000 using base-ten numerals, number names, and expanded form.		101, 106			DT Grade 2 Number 8, 18–20, 23, 24	Grade 2 Number and Algebra: Numbers to 1000 Test 1, 3, 7		
	Add up to four two-digit numbers using strategies based on place value and properties of operations.		150		120, 150	DT Grade 2 Operations 23	Grade 2 Number and Algebra: Addition and Subtraction Test 5, 8		
	Add and subtract within 1000. Understand that in adding or subtracting three–digit numbers, one adds or subtracts hundreds and hundreds, tens and tens, ones and ones; and sometimes it is necessary to compose or decompose tens or hundreds.		144, 146, 148		128, 134, 144, 146, 148	DT Grade 2 Operations 18, 21, 24–25,27, 28	Grade 2 Number and Algebra: Addition and Subtraction Test 6, 7		
	Explain why addition and subtraction strategies work, using place value and the properties of operations.		9 		• • • • •	* * * *	Grade 2 Number and Algebra:		
Addition and	Use addition and subtraction within 100 to solve one– and two–step word problems by using drawings and equations with a symbol for the unknown number to represent the problem.	CC.2.1.2.B.3	103, 110, 118, 120, 124, 128, 131, 134, 139		110, 124, 128, 134, 139	DT Grade 2 Operations 1, 4, 7, 13–17, 22			
Subtraction	Solve word problems that call for addition of three whole numbers whose sum is less than or equal to 20.	CC.2.2.2.A.1 CC.2.4.2.A.4	0 0 0 0 0 0 0 0 0 0 0 0 0 0			0 6 8 8 8	0 0 0 0 0		
	Understand subtraction as an unknown–addend problem.		163		-	DT Grade 2 Operations 20, 26	•		
	Add and subtract within 20. Use strategies such as counting on; making ten; decomposing a number leading to a ten; using the relationship between addition and subtraction; and creating equivalent but easier or known sums.					DT Grade 2 Operations 2, 5			
	Use addition and subtraction within 100 to solve word problems involving lengths that are given in the same units by using drawings and equations with a symbol for the unknown number to represent the problem.	•	141		141				
	Represent whole numbers as lengths from 0 on a number line diagram with equally spaced points corresponding to the numbers 0, 1, 2, and represent whole–number sums and differences within 100 on a number line diagram.		25, 28, 40, 56, 58, 85		6 6 7 8 8 8	6 6 7 8 8 8	Grade 2 Measurement: Informal Units Test 8		
Properties of	Fluently add and subtract within 20 using mental strategies.		142		142	MM Addition Sprints MM Subtraction Sprints	Grade 2 Number and Algebra: Addition and Subtraction Test 1,2		
Operations	Apply properties of operations as strategies to add and subtract.	CC.2.2.2.A.2				• • • •	Grade 2 Number and Algebra: Addition and Subtraction Test 4, 6		
Equal Groups	Determine whether a group of objects (up to 20) has an odd or even number of members and write an equation to express an even number as a sum of two equal addends.	(()))	108			DT Grade 2 Operations 3			
of Objects	Use addition to find the total number of objects arranged in rectangular arrays with up to 5 rows and up to 5 columns; write an equation to express the total as a sum of equal addends.	CC.2.2.2.A.3	111, 113, 130		77, 79, 113, 130	DT Grade 2 Operations 10, 19			
Shape Attributes	Recognize and draw shapes having specified attributes. Identify triangles, quadrilaterals, pentagons, hexagons, and cubes.	CC.2.3.2.A.1	119, 145, 177		119, 140, 145	DT Grade 2 Geometry 3–7, 10	Grade 2 Geometry: Shape and Movement Test 1–5		
Fractions	Partition circles and rectangles into two, three, or four equal shares, recognize that equal shares of identical wholes need not have the same shape.	CC.2.3.2.A.2	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		
	Measure the length of an object by selecting and using appropriate tools such as rulers, yardsticks, meter sticks, and measuring tapes.	•			6 6 6 6 6 6 6				
Measurement	Measure the same length with different-sized units then discuss the measurement made with the smaller unit is more than the measurement made with the larger unit and vice versa.	CC.2.4.2.A.1	104, 126		104	DT Grade 2 Measurement 6, 13–15, 21, 22	Grade 2 Measurement: Informal Units Test 1–2		
	Estimate lengths using units of inches, feet, centimeters, and meters.			\mathbf{h}					
	Measure to determine how much longer one object is than another, expressing the length difference in terms of a standard length unit.	• • • • •							
Time and Money	Tell and write time from analog and digital clocks to the nearest five minutes.	•	114, 123, 127			DT Grade 2 Measurement 7, 10, 20	Grade 2 Measurement: Time Test 1–3		
	Solve word problems involving dollar bills, quarters, dimes, nickels, and pennies, using \$ and I symbols appropriately.	CC.2.4.2.A.2	64, 83, 92, 125, 147			DT Grade 1 Measurement 3, 5–7, 12 DT Grade 2 Measurement 11, 12, 23, 24	Kindergarten Number Test 5 Grade 1 Number and Algebra: Fractions and Money Test 4–8 Grade 2 Number and Algebra: Fractions and Money Test 5–8		
Represent and	Make a line plot to show measurement data of the lengths of several objects to the nearest whole-number unit.	•			- - - - - - - -	DT Grade 2 Data and Chance 1 4 5			
Represent and Interpret Data	Draw a picture graph and a bar graph (with single–unit scale) to represent a data set with up to four categories. Solve simple put together, take–apart, and compare problems using information presented in the graph.	CC.2.4.2.A.3	143		143	7–14	Grade 2 Statistics: Data Test 1–7		
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	GRADE 3		Mathseeds Lesson #			Additional Resources
			Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency
Concept	Competencies	Standard	Online Lesson, Printable Resources, and Problem Solving Tasks	End-of-lesson Quiz	Critical Thinking and Problem Solving Interactives	Driving Tests (DT) Mental Minute (MM)
	Perform multi-digit arithmetic.		161, 163, 166, 170, 183		170	
Place Value and Properties of Operations	Demonstrate fluency of addition and subtraction.	CC.2.1.3.B.1	173, 178, 188, 195		156, 163, 173, 178	MM Addition Sprints MM Subtraction Sprints
	Round whole numbers to the nearest ten or hundred.		129, 194		194	
	Develop an understanding of fractions as numbers.		191, 197		191, 197	
Fractions	Represent fractions on a number line.	CC.2.1.3.C.1	160		196	
	Represent and generate equivalent fractions.		175, 180		180	
	Compare fractions with the same numerator or same denominator.					
	Demonstrate an understanding of properties of mulitplication.		155, 186			
Multiplication Division Patterns	Demonstate an understanding of relationship between multiplication and division.	CC.2.2.3.A.1 CC.2.2.3.A.2	136, 165, 181, 190, 196		113, 115, 130, 136, 168, 181, 188, 199	DT Grade 2 Operations 6, 9, 11, 12
	Demonstrate fluency.	CC.2.2.3.A.3	115, 158, 168, 171, 176, 188, 193, 199		176, 186, 193	MM Multiplication Sprints MM Division Sprints
Patterns	Represent and solve problems.	CC 2 2 3 A 4	133 137 153		101, 133, 137, 153, 195	
Patterns	Identify and explain patterns in arithmetic (including addition and subtraction).	CC.2.2.3.A.4	133, 137, 133			
Two- and Three-	Identify and classify shapes and their attributes.	CC 2 3 3 A 1				
Dimensional Figures	Compare shapes.	CC.2.3.3.A.1				
Eractions and Area	Partition two-dimensional shapes into equal parts.	CC 2 2 2 A 2	160		132	
	Express the area of a partition as a unit fraction of the whole.	CC.2.3.3.A.2				
	Solve problems.		182, 198		182	
	Make estimations.	CC.2.4.3.A.1 CC.2.4.3.A.5 CC.2.4.3.A.6				
Measurement	Determine the area of a rectangle as it relates to multiplication and addition.		149, 157, 200		149, 200	
	Determine perimeter or side lengths of various polygons.		192			
	Distinguish between linear and area measurements.					•
Time	Solve problems.	CC.2.4.3.A.2	179		170	
	Make estimations.				1/9	
inne	Tell and write time to the nearest minute.		162, 185		19E 190	
	Calculate time intervals.				103, 109	
Money (Coins and Bills)	Solve problems.	CC.2.4.3.A.3				
	Make estimations.		64, 83, 92, 125, 147, 159		125, 147, 159	
	Make change using combination of coins and bills.					
	Solve problems.	CC.2.4.3.A.4				
Data Displays	Make estimations.		174, 187, 189, 198		183, 187, 189	
	Represent and interpret data using various displays.					K
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