		Silver Ki			Math	seeds Lesson #	Additional Mathseeds Resources		
	an				Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency	Assessment
	Content Area	Cluster	Content Standard	Standard Number	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
		Know number names and the count sequence.	Count forward to 100; Count backwards from 10; Write numerals to 20.	1, 2, 3	1, 2, 3, 5, 7, 10, 11, 12, 14, 16, 17, 18, 28, 33, 41, 43, 45, 46, 48, 50	l, 2, 3, 5, 7, 10, 11, 12, 14, 16, 17, 18, 19, 20, 21, 25, 28, 33, 41, 43, 45, 46, 48, 50		<b>DT</b> Kindergarten Number 2, 4, 5, 9–13, 16, 17, 21, 23	Kindergarten Number Tests 1, 2
	Foundations of Counting	Count to tell the number of objects.	Connect counting to cardinality; Answer "how many?" questions.	4, 5	5, 7, 8, 11, 12, 16, 25, 31, 33, 36, 43, 4	, 7, 8, 11, 12, 16, 25, 31, 33, 36, 43, 45, 47, 48, 50, 63 1		<b>DT</b> Kindergarten Number 1, 3, 14, 15, 22	Kindergarten Number Test 2
		Compare numbers.	Identify greater/more than, less/fewer than, or equal/the same as the number of object; Compare two numbers.	6, 7	18, 22, 31, 41, 43, 45, 46		38	<b>DT</b> Kindergarten Number 6–8, 18–20	Kindergarten Number Test 3
Operations and Algebraic Thinking	Operations and Algebraic	Understanding addition as putting together and adding to, and understand subtraction as taking apart and taking from.	Represent addition and subtraction up to 10; Solve addition and subtraction word problems; Add and subtract within 10; Decompose numbers; Find the number that makes 10 when added to the given number; Fluently add and subtract within 5.	8, 9, 10, 11, 12	21, 24, 25, 30, 31, 32, 34, 36, 40, 41, 45, 46, 47, 49, 50 34		34, 36, 40, 41	<b>DT</b> Kindergarten Operations 1–14, 16–20 <b>MM</b> Addition Sprints <b>MM</b> Subtraction Sprints	<b>Kindergarten Operations</b> Tests 1–4
	THINKING	Understand simple patterns.	Duplicate and extend simple patterns.	13	27, 37		6, 8, 15, 23, 27, 37	<b>DT</b> Kindergarten Patterns 1–9	Kindergarten Number Test 6
	Operations with Numbers	Work with numbers 11- 19 to gain foundations for place value.	Compose and decompose numbers from 11 to 19.	14	41, 43, 45, 46, 48, 50		43, 46, 47	<b>DT</b> Kindergarten Operations 2, 6, 9	Kindergarten Number Test 4
	Data Analysis	Collection and analyze data and interpret results.	Classify objects into given categories of 10; Count and sort the number of objects in each category.	15				<b>DT</b> Kindergarten Data 1–10	Kindergarten Data Test 1
		Describe and compare measurable attributes.	Identify and describe measurable attributes (length, height); Directly compare two objects with a measurable attribute.	16, 17	13, 26, 55			<b>DT</b> Kindergarten Measurement 2, 3, 5, 6, 9, 10	Kindergarten Measurement Tests 1–3
	Measurement		Identify and describe measurable attributes (weight); Directly compare two objects with a measurable attribute.	16, 17	29, 73, 135			<b>DT</b> Kindergarten Measurement 7, 8, 11, 12	Kindergarten Measurement Test 4
			Identify and describe measurable attributes; Directly compare two objects with a measurable attribute.	16, 17	38, 39, 89		38	<b>DT</b> Kindergarten Measurement 1, 4, 11, 13–20	Kindergarten Measurement Test 5–7
		Identify and describe shapes. Analyze, compare, create, and compose shapes.	Describe objects in the environment and describe the relative positions of these objects.	18	57, 78, 94			<b>DT</b> Kindergarten Geometry 9–11, 13, 14 <b>DT</b> Grade 1 Geometry 4, 5, 11, 12, 14–16	Kindergarten Geometry Tests 5, 6 Grade 1 Geometry: Shape Tests 7, 8
	Geometry		Correctly name shapes regardless of their orientations or overall sizes'	19, 20, 21	4, 6, 9, 15, 23	?	6, 8, 15, 23, 27	<b>DT</b> Kindergarten Geometry 1–8, 20	Kindergarten Geometry Tests 1, 3
	,		Correctly name shapes (3D) regardless of their orientations or overall sizes	19, 20, 21, 22	35, 44			<b>DT</b> Kindergarten Geometry 15–23	<b>Kindergarten Geometry</b> Tests 2, 3
N			Use simple shapes to compose larger shapes.	23	69			<b>DT</b> Kindergarten Geometry 12	Kindergarten Geometry Test 4



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		RADE 1	Mathseeds Lesson #				
(II)				Knowledge and Skills	Assessment	Higher Order Thinking Skills	
Content Area	Cluster	Content Standard	Standard Number	Online Lesson, Printable Resources, & Problem Solving Tasks	End-of-lesson Quiz	Critical Thinking and Problem Solving Interactives	
	Represent and solve problems involving addition and subtraction.	Use addition and subtraction within 20; Solve problems that call for addition of three whole numbers.		51, 53, 58, 65, 68, 72, 85, 91	65, 68, 77, 83, 91, 93		
	Understand and apply properties of operations and the relationship between addition and subtraction.	Apply properties of operations as strategies to add and subtract; Explain subtraction as an unknown-addend problem.		93, 100	93		
Operations and Algebraic Thinking	Add and subtract within 20.	Relate counting to addition and subtraction; Add and subtract within 20.		56, 58, 68, 72, 77, 85	56, 68, 77		
THINKING	Work with addition and	Explain that the equal sign means "the same as"; Determine whether equations involving addition and subtraction as true or false.	7	76			
	subtraction equations.	Solve for the unknown number in various positions in an addition or subtraction equation.		51, 53, 56, 58, 65, 68, 72, 85, 91, 93, 95,	96, 98, 100		
	Understand simple patterns.	Reproduce, extend, and create patterns and sequences of numbers.	9	77, 79, 90	77		
	Extend the counting sequence.	Extend the number sequeunce from 0 to 120.		60, 67, 75, 90	60, 67		
		Explain that the two digits of a two-digit number represents amounts of tens and ones.		88		88	
Operations with Numbers:	Understand place value.	Compare pairs of two-digit numbers with the symbols >, =, and <.	12	56, 60, 81, 86	60, 80, 83		
Base Ten	Use place value understanding and properties of operations to add and subtract.	Add within 100, using concrete models or drawings and strategies based on place value.		88, 95, 96, 98	96		
		Given a two-digit number, mentally find 10 more ot 10 less than the number; Subtract multiples of 10 from multiples of 10 in the range 10-90.	14, 15	79, 98			
Data Analysis	Collect and analyze data and interpret results.	Organize, represent, and interpret data with up to three categories.	16	80, 97	80		
	Describe and compare measurable attributes.	Order three objects by length; Compare the lengths of two objects indirectly; Determine the length of an object using non-standard units.	17, 18	84			
Measurement		Tell and write time to the hours and half hours using analog and digital clocks.		54, 70, 87	87		
	Work with time and money.	Identify pennies and dimes by name and value.	20	64, 83, 92			
Geometry	Reason with shapes and their attributes.			52, 62, 69, 99		69	
		Partition circles and rectangles into two and four equal shares and describe the shares.	23	61, 66			



Additional	Maths	eeds R	esources

## Fluency

## Driving Tests (DT) Mental Minute (MM)

**DT** Grade 1 Operations 2

**DT** Grade 1 Operations 6, 16 **MM** Addition Sprints **MM** Subtraction Sprints

DT Grade 1 Operations 1, 3, 4, 5, 7, 9 **MM** Addition Sprints **MM** Subtraction Sprints **DT** Grade 1 Operations 10. 11 **MM** Addition Sprints **MM** Subtraction Sprints **DT** Grade 1 Operations 8, 10, 11 **MM** Addition Sprints

**MM** Subtraction Sprints DT Grade 1 Patterns and Fractions 7-10, 12

DT Grade 1 Number 1–6, 8, 11-17, 21-24

**DT** Grade 1 Number 9, 10, 19

**DT** Grade 1 Number 7, 18

**DT** Grade 1 Operations 18 **MM** Addition Sprints **MM** Subtraction Sprints

**DT** Grade 1 Operations 13, 14, 19, 20 **MM** Addition Sprints

**MM** Subtraction Sprints

**DT** Grade 1 Data 1-4, 6, 9, 10, 12-16

DT Grade 1 Measurement 2, 4, 13, 14

DT Grade 1 Measurement 1, 8, 9, 10, 15

DT Grade 1 Measurement 3, 5, 6, 7, 12

**DT** Grade 1 Geometry 9, 10, 13

**DT** Grade 1 Patterns and Fractions 5, 6, 13, 14

Assessment

**Printable Achievement** Standards Assessment

Grade 1 Number and Algebra: Operations Tests 3, 4

Grade 1 Number and Algebra: Operations Test 5

Grade 1 Number and Algebra: Operations Tests 1, 2

Grade 1 Number and Algebra: Patterns Tests 1–7

Grade 1 Number and Algebra: Whole Numbers Tests 1–5

Grade 1 Number and Algebra: Whole Numbers Test 6

Grade 1 Number and Algebra: Operations Test 6

Grade 1 Number and Algebra: Patterns Tests 1–7

Grade 1 Statistics: Data Tests 1–5

Grade 1 Measurement: Length Tests 1–5

Grade 1 Measurement: Time Tests 1–5

Grade 1 Number and Algebra: Fractions and Money Tests 4–8

Grade 1 Geometry: Shape Tests 1–7 Grade 1 Number and Algebra: Fractions and Money Tests 1, 2

Grade 1 Number and Algebra: Fractions and Money Tests 1, 2

		GRADE 2			Maths	eeds Lesson #	Additional Mathseeds Resources		
	940				Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency	Assessment
(	Content Area	Cluster	Content Standard	Standard Number	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 nd Algebraic hinking	Represent and solve problems involving addition and subtraction.	Use addition and subtraction within 100 to solve one- and two- step word problems.	1	103, 110, 111, 113, 118, 120, 124, 128, 131, 133, 134, 137, 120, 149, 150		112, 118, 124, 125, 128, 132, 133, 134, 136, 139, 144, 146, 147, 150		Grade 2 Number and Algebra: Addition and Subtraction Test 9
a		Add and subtract within 20.	Fluently add and subtract within 20 using mental strategies.	2	142			<b>DT</b> Grade 2 Operations 2, 5, 22 <b>MM</b> Addition Sprints <b>MM</b> Subtraction Sprints	Grade 2 Number and Algebra: Addition and Subtraction Test 1
	-	Work with equal groups of	Determine whether a group of up to 20 objects is even or odd.	3	108			<b>DT</b> Grade 2 Operations 3	Grade 2 Number and Algebra: Numbers to 1000 Test 6
		objects to gain foundations for multiplication.	Determine the total number of objects in a rectangular array.	4	111, 113, 115, 130		113, 130, 136	<b>DT</b> Grade 2 Operations 8, 9, 10, 19 <b>MM</b> Multiplication Sprints	Grade 2 Number and Algebra: Equal Groups Tests 1–5
			Explain that the three digits of a three-digit number represent amounts of hundreds, tens, and ones.	6	101, 105		105	<b>DT</b> Grade 2 Number 4, 8, 16, 18–22	Grade 2 Number and Algebra: Numbers to 1000 Tests 5, 8
		Understand place value.	Count within 1000 by ones, fives, tens, and hundreds.	7	101, 105, 106, 117, 129		DT Grade 2 Number 2, 3, 6, 7, 9–13, 17   105, 112, 132, 133 DT Grade 2 Patterns and Fractions 1–4, 6–10, 13		Grade 2 Number and Algebra: Number Patterns Tests 1–7
			Read and write numbers to 1000 using base-ten numerals, number names, and expanded form.	8	106		<b>DT</b> Grade 2 Number 1, 5, 23, 2		Grade 2 Number and Algebra: Numbers to 1000 Tests 1, 2, 3, 4
	Operations vith Numbers:		Compare two three-digit numbers based on the value of the hundreds, tens, and ones digits, using the symbols >, =, and <.	9	122			<b>DT</b> Grade 2 Number 14, 15	Grade 2 Number and Algebra: Numbers to 1000 Test 7
E	Base Ten	Use place value understanding and properties of operations to add and subtract.	Fluently add and subtract within 100 using strategies based on place value; Add up to four two-digit numbers.	10, 11	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 Tests 2, 3, 4, 7
			Add and subtract within 1000.	12	128, 129, 134, 144, 146		134, 144, 146	<b>DT</b> Grade 2 Operations 18, 24, 25, 26 <b>MM</b> Addition Sprints <b>MM</b> Subtraction Sprints	Grade 2 Number and Algebra: Addition and Subtraction Tests 5, 6, 8
			Mentally add and subtract 10 or 100 to a given number between 100 and 900.	13	148			<b>DT</b> Grade 2 Operations 27, 28 <b>MM</b> Addition Sprints <b>MM</b> Subtraction Sprints	
ſ	oata Analysis	Collect and analyze data and interpret results.	Measure lengths of several objects to the nearest whole unit; Create a picture graph and bar graph to represent data with up to four categories.	15, 16	143			<b>DT</b> Grade 2 Data and Chance 1, 4, 5, 7–14	<b>Grade 2 Statistics: Data</b> Tests 1–5
		Measure and estimate length in standard units.	Measure and estimate length of an object using standard units of measurement.	17, 18, 19, 20	104, 126			<b>DT</b> Grade 2 Measurement 9, 11, 13, 15, 21—24	Grade 2 Measurement: Informal Units Tests 3—7
г	/leasurement	Relate addition and subtraction to length.	Use addition and subtraction within 100 to solve word problems involving same units of length; Create a number line diagram using whole numbers.	21, 22	141			<b>DT</b> Grade 2 Measurement 19	Grade 2 Measurement: Informal Units Test 8
		Work with time	Tell and write time from analog and digital clocks to the nearest five minutes, using a.m. and p.m.	23	109, 114, 123, 127			<b>DT</b> Grade 2 Measurement 7, 20	Grade 2 Measurement: Time Tests 1—6
		and money.	Solve problems with money.	24	125, 147, 159		125, 147	<b>DT</b> Grade 2 Measurement 12	Grade 2 Number and Algebra: Fractions and Money Tests 4–7
		Reason with	Identify triangles, quadrilaterals, pentagons, hexagons, and cubes.	25	119, 121, 145		102, 119, 121, 140	<b>DT</b> Grade 2 Geometry 3–7, 10	Grade 2 Geometry: Shapes Tests 1–5
C M	ieometry	shapes and their attributes.	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.	26, 27	27 132			<b>DT</b> Grade 2 Patterns and Fractions 11, 12, 14, 16	Grade 2 Number and Algebra: Fractions and Money Tests 1–3



	0	GRADE 3		Maths	seeds Lesson	#	Additional Mathseeds Resources		
an				Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency	Assessment	
Content Area	Cluster	Content Standard	Standard Number	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	
		Illustrate the product of two whole numbers as equal groups.	1	74, 155		153, 168, 176, 181, 186, 188, 196	<b>MM</b> Multiplication Sprints		
	Represent and solve	Illustrate and interpret the quotient of two whole numbers.	2	71, 136, 165, 181, 190			<b>MM</b> Division Sprints		
	problems involving multiplication and division	Solve word situations using multiplication and division within 100.	3	168, 196	168, 196				
		Determine the unknown whole number in a multiplication or division equation relating three whole numbers.	4	186		186	<b>MM</b> Multiplication Sprints <b>MM</b> Division Sprints		
Operations and Algebraic Thinking	Understand properties of multiplication and the relationships between muliplication and division	Develop and apply properties of operations as strategies to multiply and divide; Represent division as an equation with an unknown factor.	5, 6	181, 190		181	<b>MM</b> Multiplication Sprints <b>MM</b> Division Sprints		
	Multiply and divide within 100.	Demonstrate fluency with multiplication and division within 100.	7	155, 158, 165, 171, 176, 196, 199		186, 188, 193, 199	<b>MM</b> Multiplication Sprints <b>MM</b> Division Sprints		
	Solve problems involving the four operations and	Determine and justify solutions for two-step word problems using the four operations.	8	183, 188, 195		183, 188, 195			
	identify and explain patterns in arithmetic.	Recognize and explain arithmetic patterns using properties of operations.	9	153, 158, 166, 195					
	Use place value understanding and properties of operations to perform multi-digit arithmetic.	Identify the nearest 10 or 100 when rounding whole numbers.	10	129, 194		194			
Operations with Numbers: Base Ten		Add and subtract fluently within 1000.	11	163, 170, 173, 178		170, 172, 178, 183, 188, 195	<b>MM</b> Addition Sprints <b>MM</b> Subtraction Sprints		
		Find the product of a one-digit whole number by a multiple of 10.	12	193			<b>MM</b> Multiplication Sprints		
Onerstiens	Develop understanding of fractions as numbers.	Demonstrate that a unit fraction represents one part of a whole that has been equally partitioned.	13	138, 175		175			
Operations with Numbers: Fractions		Interpret a fraction as a number on the number line; represent fractions on a number line.	14	160, 191					
		Explain equivalence and compare fractions by reasoning about their size.	15	180, 191, 197		180, 197			
Data Analysis	Represent and interpret data.	Create a scaled picture graph and scaled bar graph to represent a data set with several categories; Measure lengths to generate data and create a line plot.	16, 17	174, 182, 187, 198					
	Solve problems involving measurement and estimation of intervals of	Tell and write time to the nearest minute; measure time intervals in minutes	18	162, 179, 185, 189					
	time, liquid volumes, and masses of objects.	Estimate and measure liquid volumes and masses of objects.	19	116, 135, 154, 172		154			
Measurement	Goomotric massurement	Understand concepts of area and relate area to multiplication and to addition.	20, 21, 22, 23	59, 149, 157, 200		182			
	Geometric measurement	Recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.	24, 25	192					
Geometry Reason with shapes and their attributes.		Recognize and describe polygons.	26	169, 184					X

