Mathseeds Lessons and Ohio's Learning Standards for Mathematics Active 2005

	KINDERGARTEN	7		Mathseeds Les	son #	Additional Mat	hseeds Resources		
		<u> </u>			Higher Order Thinking Skills	Fluency	Assessment		
Domains	Standards	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		
	Count to 100; Count forward; Write numbers 0–20.	K.CC.1, K.CC.2, K.CC.3	1, 2, 3, 5, 7, 18, 19, 25, 28, 50 10, 11, 12, 14, 16, 17, 20, 21, 31, 33, 48		19	DT Early Number 2, 4, 5, 9–13, 16, 17, 21, 23	Kindergarten Number Tests 1, 2		
Counting and Cardinality	Understand the relationship between numbers and quantities; Connect counting to cardinality; Count to answer "how many?" questions.	K.CC.4, K.CC.5			12, 19, 41, 43	DT Early Number 1, 3, 14, 15, 22	Kindergarten Number Test 2		
	Identify greater than, less than, or equal; Compare two numbers.	K.CC.6, K.CC.7	22		12, 30, 41	DT Early Number 6–8, 18–20	Kindergarten Number Test 3		
Operations and Algebraic Thinking	Represent addition and subtraction; 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.	K.OA.1, K.OA.2, K.OA.3, K.OA.4, K.OA.5	24, 30, 32, 34, 36, 40, 47, 49		24, 30, 32, 34, 36, 40, 47, 49		12, 19, 30, 34, 36, 40, 41, 43, 47	DT Early Operations 1–14, 16–20 MM Addition Sprints MM Subtraction Sprints	Kindergarten Operations Tests 1–4
Number and Operations in Base Ten	Compose and decompose numbers from 11 to 19.	K.NBT.1	41, 43, 45, 46		41, 43	DT Early Operations 2, 6, 9	Kindergarten Number Test 4		
	Describe objects in terms of length; Directly compare two objects to see which is longer/shorter.	K.MD.1, K.MD.2	13, 26			DT Early Measurement 2, 3, 5, 6, 9, 10	Kindergarten Measurement Tests 1–3		
Measurement and	Describe objects in terms of weight; Directly compare two objects to see which is heavier/lighter.	K.MD.1, K.MD.2	29			DT Early Measurement 7, 8, 12	Kindergarten Measurement Test 4		
Data	Describe objects in terms of capacity; Directly compare two objects to see which hold more/less.	K.MD.1, K.MD.2	38			DT Early Measurement 11, 15, 16	Kindergarten Measurement Test 5		
	Classify objects into given categories; Count the numbers of objects in each category.	K.MD.3	8, 23	6, 8, 15, 23, 27		DT Early Data 1–10	Kindergarten Data Test 1		
	Describe objects in the environment using names of shapes, and describe the relative positions.	K.G.1				DT Early Geometry 9–11, 13–14	Kindergarten Geometry Test 5		
	Name two-dimensional shapes; Describe and compare two- dimensional shapes.	K.G.2, K.G.4	4, 6, 9, 15, 23, 27, 37		6, 15, 23	DT Early Geometry 1–8, 19, 20	Kindergarten Geometry Test 4		
Geometry	Name three-dimensional shapes; Describe and compare three-dimensional shapes.	K.G.2, K.G.4	35, 44			DT Early Geometry 15–18, 21–23	Kindergarten Geometry Test 2		
	Identify shapes as two-dimensional or three-dimensional.	K.G.3				DT Early Geometry 19–20	Kindergarten Geometry Test 3		
	Combine simple shapes to form larger shapes.	K.G.6	Ó	0		DT Early Geometry 12	Kindergarten Geometry Test 12		



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GRADE 1		Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency
andards	Codes	Online Lesson, Printable Resources, & Problem Solving Tasks	End-of-lesson Quiz	Critical Thinking and Problem Solving Interactives	Driving Tests (DT) Mental Minute (MM)
e addition and subtraction within 20; Solve problems at call for addition of three whole numbers.	1.OA.1, 1.OA.2	51, 53		51, 53, 56, 65, 68, 77, 83, 91, 93, 96	DT Grade 1 Operations
ply properties of operations as strategies to add and ptract; Understand subtraction as an unknown-addend pblem.	1.OA.3, 1.OA.4	93, 100		91, 96	DT Grade 1 Operations MM Addition Sprints MM Subtraction Sprints
late counting to addition and subtraction; Add and otract within 20 using strategies.	1.OA.5, 1.OA.6	56, 58, 68, 72, 77, 85			DT Grade 1 Operations MM Addition Sprints MM Subtraction Sprints
derstand the meaning of the equal sign.	1.OA.7	76			DT Grade 1 Operations MM Addition Sprints MM Subtraction Sprints
termine the unknown whole number in an addition or ptraction equation relating three whole numbers.	1.OA.8	53, 65			DT Grade 1 Operations MM Addition Sprints MM Subtraction Sprints
ount to 120.	1.NBT.1	60, 67, 75, 90		60, 63, 79, 80, 88	DT Grade 1 Number 1- 21–24
derstand that the two digits of a two-digit number present amounts of tens and ones.	1.NBT.2	88		67, 88	DT Grade 1 Number 9,
mpare two two-digit numbers with the symbols >, =, d <.	1.NBT.3	81, 86		60, 80, 83	DT Grade 1 Number 7,
d within 100 using concrete models or drawings and ategies based on place value, properties of operations, d/or the relationship between addition and subtraction.	1.NBT.4	95, 96		68, 93, 96	DT Grade 1 Operations MM Addition Sprints MM Subtraction Sprints
ven a two-digit number, mentally find 10 more or 10 s than the number; Subtract multiples of 10.	1.NBT.5, 1.NBT.6	79, 98			DT Grade 1 Operations MM Addition Sprints MM Subtraction Sprints
der three objects by length; Express the length of an ject as a whole number.	1.MD.1, 1.MD.2	84			DT Grade 1 Measureme
l and write time in hours and half-hours using analog d digital clocks. Identify pennies and dimes by name d value.	1.MD.3	54, 64, 70, 83, 87, 92		87	DT Grade 1 Measurem 15
ganize, represent, and interpret data.	1.MD.4	80, 97		80	DT Grade 1 Data 1-4,
stinguish defining attributes of shapes; Compose two- nensional and three-dimensional shapes.	1.G.1, 1.G.2	52, 62, 69, 99		59, 69	DT Grade 1 Geometry
rtition circles and rectangles into two and four equal ares.	1.G.3	61, 66	TO A		DT Grade 1 Patterns and 13, 14
	andards a addition and subtraction within 20; Solve problems t call for addition of three whole numbers. ply properties of operations as strategies to add and tract; Understand subtraction as an unknown-addend oblem. ate counting to addition and subtraction; Add and bract within 20 using strategies. derstand the meaning of the equal sign. termine the unknown whole number in an addition or straction equation relating three whole numbers. unt to 120. derstand that the two digits of a two-digit number resent amounts of tens and ones. mpare two two-digit numbers with the symbols >, =, d<.	andardsCodesa addition and subtraction within 20; Solve problems t call for addition of three whole numbers.1.OA.1, 1.OA.2ply properties of operations as strategies to add and thract; Understand subtraction as an unknown-addend solem.1.OA.3, 1.OA.4ate counting to addition and subtraction; Add and stract within 20 using strategies.1.OA.5, 1.OA.6derstand the meaning of the equal sign.1.OA.7termine the unknown whole number in an addition or straction equation relating three whole numbers.1.OA.8unt to 120.1.NBT.1derstand that the two digits of a two-digit number resent amounts of tens and ones.1.NBT.2mpare two two-digit numbers with the symbols >, =, d<.	AndardsKnowledge and SkillsandardsCodesOnline Lesson, Printable Resources, & Problem Solving Tasksa dadition and subtraction within 20; Solve problems ta call for addition of three whole numbers.1.OA.1, 1.OA.2,51, 53ply properties of operations as strategies to add and thract, Understand subtraction as an unknown-addend thract within 20 using strategies.1.OA.3, 1.OA.6,93, 100ate counting to addition and subtraction; Add and thract within 20 using strategies.1.OA.7, 1.OA.6,56, 58, 68, 72, 77, 85derstand the meaning of the equal sign.1.OA.8, 1.OA.8,53, 65terrine the unknown whole number in an addition or straction equation relating three whole numbers.1.OA.8, 1.OA.8,53, 65unt to 120.1.NBT.160, 67, 75, 90derstand that the two digits of a two-digit number resent amounts of tens and ones.1.NBT.288mpare two two-digit numbers with the symbols >, =, 4.1.NBT.3, 1.NBT.3,81, 86d. within 100 using concrete models or drawings and tegies based on place value, properties of operations, d/or the relationship between addition and subtraction.1.NBT.4, 1.NBT.5, 1.NBT.5, 1.NBT.6,79, 98at ext as a whole number.1.MD.1, 1.MD.3, 1.MD.3, 1.MD.3, 1.MD.3, 1.A.4, 64, 70, 83, 87, 9284at mather number, Subtract multiples of 10.1.MD.3, 1.MD.3, 1.A.4, 70, 83, 87, 9252, 62, 69, 99at mather in in hours and halfhours using analog d digital clocks. Identify pennies and dimes by nome at value.1.A.1, 1.A.2, 1.A.2, 1.A.2, 1.A.2, 1.A.2, 1	Knowledge and SkillsAssessmentandardsCodesOnline Lesson, Printable Resources, & Printable Resources, & 	Knowledge and SkillsAssessmentHigher Order Thinking SkillsandardsCodesOnline Lesson, Pribrible Resources, & Problem Solving InteractivesEnd-of-lesson CuizCitical Thinking and Problem Solving Interactivesa ddilion and subtraction within 20; Sube problems1.OA.1 1.OA.2S1. S3S5, 65, 66, 77, 83, 91, 93, 96ply properties of operations as strategies to add and tract. Understand subtraction s an unknown-addend the cuiving to addition and subtraction; Add and tract within 20 using strategies.I.OA.5 1.OA.7S5, 58, 68, 72, 77, 85S1, 53, 56, 65, 66, 77, 83, 91, 93, 96derstand the meaning of the equal sign.I.OA.7 1.OA.776IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII





ditional Mathseeds Resources

	Assessment
V)	Printable Achievement Standards Assessment
ns 2	Grade 1 Number and Algebra: Operations Tests 3, 4
ns 6, 16 ts	Grade 1 Number and Algebra: Operations Test 5
ns 1, 3, 4, 5, 7, 9 ts	Grade 1 Number and Algebra: Operations Tests 1, 2
ns 10, 11 ts	
ns 8 ts	
1–6, 8, 11–17,	Grade 1 Number and Algebra: Whole Numbers Tests 1–9
9, 10, 19	Grade 1 Number and Algebra: Whole Numbers Tests 1–5
7, 18	Grade 1 Number and Algebra: Whole Numbers Test 6
ns 18 ts	Grade 1 Number and Algebra: Operations Test 6
ns 13, 14, 19, 20 ts	Grade 1 Number and Algebra: Patterns Tests 1–7
ment 2, 4, 13, 14	Grade 1 Measurement: Length Tests 1–5
ment 1, 8, 9, 10,	Grade 1 Measurement: Time Tests 1–5
4, 6, 9, 10, 12–16	Grade 1 Statistics: Data Tests 1–5
y 9, 10, 13	Grade 1 Geometry: Shape Tests 1–7
and Fractions 5, 6,	Grade 1 Number and Algebra: Fractions and Money Tests 1, 2

Mathseeds Lessons and Ohio's Learning Standards for Mathematics

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		GRADE 2		٨	Additio		
		GRADE Z		Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency
	Domains	Standards	Codes	Online Lesson, Printable Resources, & Problem Solving Tasks	End-of- lesson Quiz	Critical Thinking and Problem Solving Interactives	Driving Tests (DT) Mental Minute (MM)
		Use addition and subtraction within 100 to solve one- and two-step word problems.	2.OA.1	118, 131, 137, 139	1	112, 118, 124, 125, 128, 132, 133, 134, 136, 139, 144, 146, 147, 150	
	Operations and Algebraic	Fluently add and subtract within 20 using mental strategies.	2.OA.2	142			DT Grade 2 Operations 2, 5, 2 MM Addition Sprints MM Subtraction Sprints
	Thinking	Determine whether a group of objects is odd or even.	2.OA.3	108		108	DT Grade 2 Operations 3
		Use addition to find the total of rectangular arrays.	2.OA.4	111, 113, 115, 130		113, 130, 136	DT Grade 2 Operations 8, 9, 1 MM Multiplication Sprints
		Understand that the three digits of a three-digit number represent amounts of hundreds, tens, and ones.	2.NBT.1	105, 129		105	DT Grade 2 Number 4, 8, 16,
		Count within 1000; skip-count by 5s, 10s, and 100s.	2.NBT.2	101, 117		105, 112, 132, 133	DT Grade 2 Number 2, 3, 6, 7 DT Grade 2 Patterns and Fractio
		Read and write numbers to 1000 using base-ten numerals, number names, expanded form, and equivalent representations.	2.NBT.3	106			DT Grade 2 Number 1, 5, 23,
	Number and Operations in	Compare two three-digit numbers based on meanings of the hundreds, tens, and ones digits, using >, =, and < symbols.	2.NBT.4	122			DT Grade 2 Number 14, 15
	Base Ten	Fluently add and subtract within 100 using strategies based on place value; Add up to four two-digit numbers.	2.NBT.5, 2.NBT.6	103, 110, 120, 124, 133, 144, 146, 150			DT Grade 2 Operations 1, 4, 7 MM Addition Sprints MM Subtraction Sprints
		Add and subtract within 1000.	2.NBT.7	128, 134		134, 144, 146	DT Grade 2 Operations 18, 24 MM Addition Sprints MM Subtraction Sprints
		Mentally add 10 or 100 to a given number 100–900, and mentally subtract 10 or 100 from a given number 100–900.	2.NBT.8	148			DT Grade 2 Operations 27, 28 MM Addition Sprints MM Subtraction Sprints
		Measure and estimate lengths using units of inches, feet, centimeters, and meters.	2.MD.1, 2.MD.3, 2.MD.4	104, 126			DT Grade 2 Measurement 9, 1 22, 23, 24
		Relate addition and subtraction to length.	2.MD.5, 2.MD.6	141			DT Grade 2 Measurement 19
	Measurement and Data	Tell and write time from analog and digital clocks to the nearest five minutes, using a.m. and p.m.	2.MD.7	114, 123, 127			DT Grade 2 Measurement 7, 2
		Solve word problems involving dollar bills, quarters, dimes, nickels, and pennies.	2.MD.8	125, 147		125, 147	DT Grade 2 Measurement 12
		Represent and interpret data.	2.MD.9, 2.MD.10	143			DT Grade 2 Data and Chance
		Recognize and identify triangles, quadrilaterals, pentagons, and hexagons, cubes, rectangular prisms, cones, and cylinders.	2.G.1	119, 121, 145		102, 119, 121, 140	DT Grade 2 Geometry 3-7, 10
X	Geometry	Partition circles and rectangles into two, three, or four equal shares; Recognize that equal shares of identical wholes need not have the same shape.	2.G.3	132			DT Grade 2 Patterns and Fracti 16
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	Assessment
	Printable Achievement Standards Assessment
	Grade 2 Number and Algebra: Addition and Subtraction Test 9
5, 22	Grade 2 Number and Algebra: Addition and Subtraction Test 1
	Grade 2 Number and Algebra: Numbers to 1000 Test 6
9, 10, 19	Grade 2 Number and Algebra: Equal Groups Tests 1–5
6, 18–22	Grade 2 Number and Algebra: Numbers to 1000 Tests 5, 8
, 7, 9–13, 17 ctions 1–4, 6–10, 13	Grade 2 Number and Algebra: Number Patterns Tests 1–7
3, 24	Grade 2 Number and Algebra: Numbers to 1000 Tests 1, 2, 3, 4
	Grade 2 Number and Algebra: Numbers to 1000 Test 7
, 7, 13–17, 20, 23	Grade 2 Number and Algebra: Addition and Subtraction Tests 2, 3, 4, 7
24, 25, 26	Grade 2 Number and Algebra: Addition and Subtraction Tests 5, 6, 8
28	
, 11, 13, 15, 21,	Grade 2 Measurement: Informal Units Tests 3–7
9	Grade 2 Measurement: Informal Units Test 8
, 20	Grade 2 Measurement: Time Tests 1–6
2	Grade 2 Number and Algebra: Fractions and Money Tests 4–7
ce 1, 4, 5, 7–14	Grade 2 Statistics: Data Tests 1–5
10	Grade 2 Geometry: Shapes Tests 1–5
actions 11, 12, 14,	Grade 2 Number and Algebra: Fractions and Money Tests 1–3

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GRADE 3	
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	GRADE 3		Mathseeds Lesson #			Additional Mathseeds Resources	
an	GRADE 3		Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency	
Domains	Standards	Codes	Online Lesson, Printable Resources, & Problem Solving Tasks	End-of-lesson Quiz	Critical Thinking and Problem Solving Interactives	Mental Minute (MM)	
	Interpret products of whole numbers.	3.OA.1	155			MM Multiplication Sprints	
	Interpret whole-number quotients of whole numbers.	3.OA.2	165			MM Division Sprints	
	Use multiplication and division within 100 to solve word problems.	3.OA.3	168, 196				
Operations	Determine the unknown whole number in a multiplication or division equation relating three whole numbers.	3.OA.4	186			MM Multiplication Sprints MM Division Sprints	
and Algebraic Thinking	Apply properties of operations as strategies to multiply and divide; Understand division as an unknown-factor problem.		181, 190 153, 168, 176, 181, 186, 188, 196		MM Multiplication Sprint MM Division Sprints		
	Fluently multiply and divide within 100.		158, 171, 176, 199 186, 188, 193, 199		MM Multiplication Sprin MM Division Sprints		
	Solve two-step word problems using the four operations.	3.OA.8	183, 188, 195 154, 159, 163, 170, 172, 178, 183, 188, 193, 194, 195, 196, 199				
	Identify arithmetic patterns and explain them using properties of operations.	3.OA.9	153, 166		170, 182, 188, 193, 196		
	Use place value understanding to round whole numbers to the nearest 10 or 100.	3.NBT.1	194				
Number and Operations in	Fluently add and subtract within 1000.	3.NBT.2	163, 170, 173, 178			MM Addition Sprints MM Subtraction Sprints	
Base Ten	Multiply one-digit whole numbers by multiples of 10.	3.NBT.3	193			MM Multiplication Sprin	
Number and	Understand a fraction 1/b as the quantity formed by 1 part when a whole is partitioned into b equal parts.	3.NF.1	175				
Operations-	Understand a fraction as a number on the number line; represent fractions on a number line diagram.	3.NF.2	160		175, 180, 191, 197		
ractions	Explain equivalence of fractions in special cases, and compare fractions by reasoning about their size.	3.NF.3	180, 197				
	Tell and write time to the nearest minute and measure time intervals in minutes. Solve word problems by adding and subtracting with dollars and cents.		159, 162, 179, 185, 189				
Measurement and Data	Measure and estimate volumes of objects using standard units of liters. Add, subtract, multiply, or divide to solve one-step word problems.	3.MD.2	154		154		
	Measure and estimate masses of objects using standard units of grams (g) and kilograms (kg). Add, subtract, multiply, or divide to solve one-step word problems.	3.MD.2	172		172		
	Represent and interpret data.	3.MD.3, 3.MD.4	174, 182, 187, 198				
	Understand concepts of area measurement. Measure areas by counting unit squares (square cm, square m, square in, square ft, and improvised units). Relate area to the operations of multiplication and addition.	3.MD.5, 3.MD.6, 3.MD.7	1 <i>57</i> , 200				
	Solve real-world and mathematical problems involving perimeters of polygons.	3.MD.8	192				
Geometry	Draw and describe triangles, quadrilaterals, and polygons (up to 8 sides) based on the number of sides and the presence or absence of square corners (right angles).	3.G.1	169				
	Partition shapes into parts with equal areas.	3.G.2	184				

