



Mathseeds Lessons and North Carolina Standard Course of Study



KINDERGARTEN

Domains	Standards	Codes	Mathseeds Lesson #			Additional Mathseeds Resources	
			Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency	Assessment
			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
Counting and Cardinality	Know number names; Count forward; Write numbers 0-20.	NC.K.CC.1, NC.K.CC.2, NC.K.CC.3	1, 2, 3, 5, 7, 18, 19, 25, 28, 50			DT Early Number 2, 4, 9–13, 16, 17, 21, 23	Kindergarten Number Tests 1, 2
	Understand the relationship between numbers and quantities; Count to answer "how many?" questions.	NC.K.CC.4, NC.K.CC.5	10, 11, 12, 14, 16, 17, 20, 21, 31, 33, 48			DT Early Number 1, 3, 14, 15, 22	Kindergarten Number Test 2
	Identify greater than, less than, or equal number of objects; Compare two numbers.	NC.K.CC.6, NC.K.CC.7	22			DT Early Number 6–8, 18–20	Kindergarten Number Test 3
Operations and Algebraic Thinking	Represent addition and subtraction; Solve addition and subtraction word problems; Decompose numbers; Find the number that makes 10 when added to the given number; Fluently add and subtract within 5; Recognize and combine groups with totals up to 5.	NC.K.OA.1, NC.K.OA.2, NC.K.OA.3, NC.K.OA.4, NC.K.OA.5, NC.K.OA.6	24, 30, 32, 34, 36, 40, 47, 49			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.	NC.K.NBT.1	41, 43, 45, 46			DT Early Operations 2, 6, 9	Kindergarten Number Test 4
Measurement and Data	Describe objects in terms of length; Directly compare two objects to see which is longer/shorter.	NC.K.MD.1, NC.K.MD.2	13, 26			DT Early Measurement 2, 3, 5, 6, 9, 10	Kindergarten Measurement Tests 1–3
	Describe objects in terms of weight; Directly compare two objects to see which is heavier/lighter.	NC.K.MD.1, NC.K.MD.2	29			DT Early Measurement 7, 8, 12	Kindergarten Measurement Test 4
	Describe objects in terms of capacity; Directly compare two objects to see which hold more/less.	NC.K.MD.1, NC.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.	NC.K.MD.3	8, 23			DT Early Data 1–10	Kindergarten Data Test 1
Geometry	Describe objects in the environment using names of shapes, and describe relative positions.	NC.K.G.1				DT Early Geometry 9–11, 13–14	Kindergarten Geometry Test 5
	Name two-dimensional shapes; Analyze and compare two-dimensional shapes.	NC.K.G.2, NC.K.G.4	4, 6, 9, 15, 23, 27, 37			DT Early Geometry 1–8, 19, 20	Kindergarten Geometry Test 4
	Name three-dimensional shapes; Analyze and compare three-dimensional shapes.	NC.K.G.2, NC.K.G.4	35, 44			DT Early Geometry 15–18, 21–23	Kindergarten Geometry Test 2
	Identify shapes as two-dimensional or three-dimensional.	NC.K.G.3				DT Early Geometry 19–20	Kindergarten Geometry Test 3
	Compose larger shapes from simple shapes.	NC.K.G.6				DT Early Geometry 12	Kindergarten Geometry Test 12



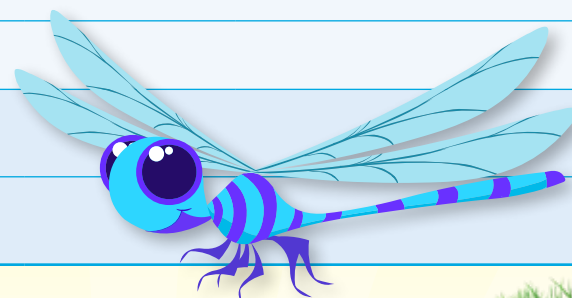


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GRADE 1

GRADE 1			Mathseeds Lesson #			Additional Mathseeds Resources	
Domains	Standards	Codes	Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency	Assessment
			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
Operations and Algebraic Thinking	Solve addition and subtraction word problems within 20; Represent and solve problems that call for addition of three whole numbers.	NC.1.OA.1, NC.1.OA.2	51, 53			DT Grade 1 Operations 2	Grade 1 Number and Algebra: Operations Tests 3, 4
	Apply the commutative and associative properties; Solve an unknown-addend problem.	NC.1.OA.3, NC.1.OA.4	93, 100			DT Grade 1 Operations 6, 16 MM Addition Sprints MM Subtraction Sprints	Grade 1 Number and Algebra: Operations Test 5
	Demonstrate fluency with addition and subtraction within 10; Add and subtract within 20 using strategies.	NC.1.OA.9, NC.1.OA.6	56, 58, 68, 72, 77, 85			DT Grade 1 Operations 1, 3, 4, 5, 7, 9 MM Addition Sprints MM Subtraction Sprints	Grade 1 Number and Algebra: Operations Tests 1, 2
	Understand the meaning of the equal sign.	NC.1.OA.7	76			DT Grade 1 Operations 10, 11 MM Addition Sprints MM Subtraction Sprints	
	Determine the unknown whole number in an addition or subtraction equation relating three whole numbers.	NC.1.OA.8	53, 65			DT Grade 1 Operations 8 MM Addition Sprints MM Subtraction Sprints	
Number and Operations in Base Ten	Count to 150; Read and write numerals to 100.	NC.1.NBT.1, NC.1.NBT.7	60, 67, 75, 90			DT Grade 1 Number 1–6, 8, 11–17, 21–24	Grade 1 Number and Algebra: Whole Numbers Tests 1–9
	Understand that the two digits of a two-digit number represent amounts of tens and ones.	NC.1.NBT.2	88			DT Grade 1 Number 9, 10, 19	Grade 1 Number and Algebra: Whole Numbers Tests 1–5
	Compare two two-digit numbers with the symbols >, =, and <.	NC.1.NBT.3	81, 86			DT Grade 1 Number 7, 18	Grade 1 Number and Algebra: Whole Numbers Test 6
	Using concrete models or drawings, strategies based on place value, properties of operations, and explaining the reasoning used, add, within 100.	NC.1.NBT.4	95, 96			DT Grade 1 Operations 18 MM Addition Sprints MM Subtraction Sprints	Grade 1 Number and Algebra: Operations Test 6
	Given a two-digit number, mentally find 10 more or 10 less than the number; Subtract multiples of 10.	NC.1.NBT.5, NC.1.NBT.6	79, 98			DT Grade 1 Operations 13, 14, 19, 20 MM Addition Sprints MM Subtraction Sprints	Grade 1 Number and Algebra: Patterns Tests 1–7
Measurement and Data	Order three objects by length; Measure lengths with non-standard units.	NC.1.MD.1, NC.1.MD.2	84			DT Grade 1 Measurement 2, 4, 13, 14	Grade 1 Measurement: Length Tests 1–5
	Tell and write time in hours and half-hours using analog and digital clocks.	NC.1.MD.3	54, 70, 87			DT Grade 1 Measurement 1, 8, 9, 10, 15	Grade 1 Measurement: Time Tests 1–5
	Identify quarters, dimes, and nickels and relate their values to pennies.	NC.1.MD.5	64, 83			DT Grade 1 Measurement 3, 5, 6, 7, 12	Grade 1 Number and Algebra: Fractions and Money Tests 4–8
	Organize, represent, and interpret data.	NC.1.MD.4	80, 97			DT Grade 1 Data 1–4, 6, 9, 10, 12–16	Grade 1 Statistics: Data Tests 1–5
Geometry	Distinguish defining attributes of shapes; Compose two-dimensional and three-dimensional shapes.	NC.1.G.1, NC.1.G.2	52, 62, 69, 99			DT Grade 1 Geometry 9, 10, 13	Grade 1 Geometry: Shape Tests 1–7
	Partition circles and rectangles into two and four equal shares.	NC.1.G.3	61, 66			DT Grade 1 Patterns and Fractions 5, 6, 13, 14	Grade 1 Number and Algebra: Fractions and Money Tests 1, 2





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GRADE 2

			Mathseeds Lesson #			Additional Mathseeds Resources	
Domains	Standards	Codes	Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency	Assessment
			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
Operations and Algebraic Thinking	Represent and solve addition and subtraction word problems, within 100.	NC.2.OA.1	118, 131, 137, 139				Grade 2 Number and Algebra: Addition and Subtraction Test 9
	Demonstrate fluency with addition and subtraction.	NC.2.OA.2	142			DT Grade 2 Operations 2, 5, 22 MM Addition Sprints MM Subtraction Sprints	Grade 2 Number and Algebra: Addition and Subtraction Test 1
	Determine whether a group of objects is odd or even.	NC.2.OA.3	108			DT Grade 2 Operations 3	Grade 2 Number and Algebra: Numbers to 1000 Test 6
	Use addition to find the total of rectangular arrays.	NC.2.OA.4	111, 113, 115, 130			DT Grade 2 Operations 8, 9, 10, 19 MM Multiplication Sprints	Grade 2 Number and Algebra: Equal Groups Tests 1–5
Number and Operations in Base Ten	Understand that the three digits of a three-digit number represent amounts of hundreds, tens, and ones.	NC.2.NBT.1	105, 129			DT Grade 2 Number 4, 8, 16, 18–22	Grade 2 Number and Algebra: Numbers to 1000 Tests 5, 8
	Count within 1000; skip-count by 5s, 10s, and 100s.	NC.2.NBT.2	101, 117			DT Grade 2 Number 2, 3, 6, 7, 9–13, 17 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.	NC.2.NBT.3	106			DT Grade 2 Number 1, 5, 23, 24	Grade 2 Number and Algebra: Numbers to 1000 Tests 1, 2, 3, 4
	Compare two three-digit numbers based on meanings of the hundreds, tens, and ones digits, using $>$, $=$, and $<$.	NC.2.NBT.4	122			DT Grade 2 Number 14, 15	Grade 2 Number and Algebra: Numbers to 1000 Test 7
	Demonstrate fluency with addition and subtraction; Add up to three two-digit numbers using strategies based on place value and properties of operations.	2.NBT.B.5, 2.NBT.B.6	103, 110, 120, 124, 133, 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.	NC.2.NBT.7	128, 134			DT Grade 2 Operations 18, 24, 25, 26 MM Addition Sprints MM Subtraction Sprints	Grade 2 Number and Algebra: Addition and Subtraction Tests 5, 6, 8
	Mentally add 10 or 100 and mentally subtract 10 or 100 from a given number 100–900.	NC.2.NBT.8	148			DT Grade 2 Operations 27, 28 MM Addition Sprints MM Subtraction Sprints	
Measurement and Data	Measure and estimate lengths using units of inches, feet, centimeters, and meters.	NC.2.MD.1, NC.2.MD.3, NC.2.MD.4	104, 126			DT Grade 2 Measurement 9, 11, 13, 15, 21, 22, 23, 24	Grade 2 Measurement: Informal Units Tests 3–7
	Relate addition and subtraction to length.	NC.2.MD.5, NC.2.MD.6	141			DT Grade 2 Measurement 19	Grade 2 Measurement: Informal Units Test 8
	Tell and write time from analog and digital clocks to the nearest five minutes, using a.m. and p.m.	NC.2.MD.7	114, 123, 127			DT Grade 2 Measurement 7, 20	Grade 2 Measurement: Time Tests 1–6
	Solve word problems involving quarters, dimes, nickels, and pennies, as well as whole dollar amounts.	NC.2.MD.8	125, 147			DT Grade 2 Measurement 12	Grade 2 Number and Algebra: Fractions and Money Tests 4–7
	Organize, represent, and interpret data with up to four categories.	NC.2.MD.10	143			DT Grade 2 Data and Chance 1, 4, 5, 7–14	Grade 2 Statistics: Data Tests 1–5
Geometry	Recognize and draw 2D shapes having specified attributes; Recognize and describe the attributes of 3D shapes.	NC.2.G.1	119, 121, 145			DT Grade 2 Geometry 3–7, 10	Grade 2 Geometry: Shapes Tests 1–5
	Partition circles and rectangles into two, three, or four equal shares.	NC.2.G.3	132			DT Grade 2 Patterns and Fractions 11, 12, 14, 16	Grade 2 Number and Algebra: Fractions and Money Tests 1–3





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GRADE 3



Domains	Standards	Codes	Mathseeds Lesson #			Additional Mathseeds Resources
			Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency
Operations and Algebraic Thinking	Interpret products of whole numbers with two factors.	NC.3.OA.1	155			MM Multiplication Sprints
	Interpret whole-number quotients of whole numbers with one-digit divisor.	NC.3.OA.2	165			MM Division Sprints
	Represent, interpret, and solve one-step problems involving multiplication and division.	NC.3.OA.3	168, 196			
	Solve an unknown-factor problem, by using division strategies and/or changing it to a multiplication problem.	NC.3.OA.6	181, 186, 190			MM Multiplication Sprints MM Division Sprints
	Demonstrate fluency with multiplication and division.	NC.3.OA.7	158, 171, 176, 199			MM Multiplication Sprints MM Division Sprints
	Solve two-step word problems using the four operations.	NC.3.OA.8	183, 188, 195			
	Interpret patterns of multiplication.	NC.3.OA.9	153, 166			
Number and Operations in Base Ten	Add and subtract whole numbers up to and including 1,000.	NC.3.NBT.2	163, 170, 173, 178			MM Addition Sprints MM Subtraction Sprints
	Generalize place value understanding to find the product of a one-digit whole number by a multiple of 10.	NC.3.NBT.3	193			MM Multiplication Sprints
Number and Operations-Fractions	Interpret unit fractions with denominators of 2, 3, 4, 6, and 8 as quantities formed when a whole is partitioned into equal parts.	NC.3.NF.1	175			
	Interpret fractions with denominators of 2, 3, 4, 6, and 8 using area and length models.	NC.3.NF.2	160			
	Represent equivalent fractions with area and length models; Compare two fractions with the same numerator or the same denominator using area and length models.	NC.3.NF.3, NC.3.NF.4	180, 197			
Measurement and Data	Tell and write time to the nearest minute. Solve word problems involving time intervals.	NC.3.MD.1	162, 179, 185, 189			
	Estimate, measure, and solve problems involving capacity.	NC.3.MD.2	154			
	Estimate, measure, and solve problems involving length.	NC.3.MD.2	182			
	Estimate, measure, and solve problems involving weight.	NC.3.MD.2	172			
	Represent and interpret data.	NC.3.MD.3	174, 187, 198			
	Understand the concept of area.	NC.3.MD.5, NC.3.MD.7	157, 200			
	Understand the concept of perimeter.	NC.3.MD.8	192			
Geometry	Reason with two-dimensional shapes and their attributes.	NC.3.G.2	169, 184			

