

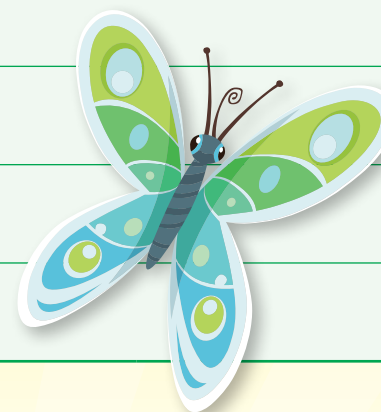


# Mathseeds Lessons and New York Learning Standards



## 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	Count to 100; Count forward; Write numbers 0–20.	NY-K.CC.1, NY-K.CC.2, NY-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; Connect counting to cardinality; Answer counting questions.	NY-K.CC.4, NY-K.CC.5	10, 11, 12, 14, 16, 17, 20, 21, 31, 33, 48			DT Early Number 1, 3, 14, 15, 22, 24, 25	Kindergarten Number Tests 2, 6
	Identify greater than, less than, or equal number of objects; Compare two numbers.	NY-K.CC.6, NY-K.CC.7	22			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.	NY-K.OA.1, NY-K.OA.2, NY-K.OA.3, NY-K.OA.4, NY-K.OA.5	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
	Understand single patterns.	NY-K.OA.6	27, 37			DT Early Patterns 1–9	
Number and Operations in Base Ten	Compose and decompose numbers from 11 to 19.	NY-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.	NY-K.MD.1, NY-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.	NY-K.MD.1, NY-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.	NY-K.MD.1, NY-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.	NY-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 the relative positions.	NY-K.G.1				DT Early Geometry 9–11, 13–14	Kindergarten Geometry Test 5
	Name two-dimensional shapes; Analyze and compare two-dimensional shapes.	NY-K.G.2, NY-K.G.4	4, 6, 9, 15, 23			DT Early Geometry 1–8, 19, 20	Kindergarten Geometry Test 4
	Name three-dimensional shapes; Analyze and compare three-dimensional shapes.	NY-K.G.2, NY-K.G.4	35, 44			DT Early Geometry 15–18, 21–23	Kindergarten Geometry Test 2
	Identify shapes as two-dimensional or three-dimensional.	NY-K.G.3				DT Early Geometry 19–20	Kindergarten Geometry Test 3
	Compose simple shapes to form larger shapes.	NY-K.G.6				DT Early Geometry 12	Kindergarten Geometry Test 12



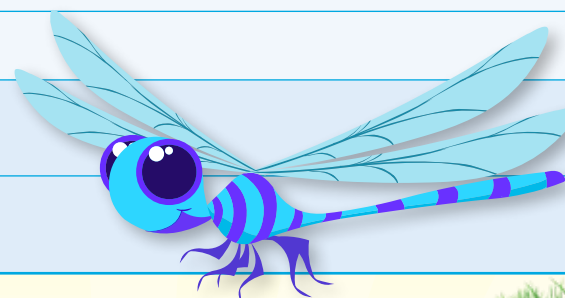


# Mathseeds Lessons and New York Learning Standards



## 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	Use addition and subtraction within 20; Solve problems that call for addition of three whole numbers.	NY-1.OA.1, NY-1.OA.2	51, 53			DT Grade 1 Operations 2	Grade 1 Number and Algebra: Operations Tests 3, 4
	Apply properties of operations as strategies to add and subtract; Understand subtraction as an unknown-addend problem.	NY-1.OA.3, NY-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
	Relate counting to addition and subtraction; Add and subtract within 20 using strategies.	NY-1.OA.5, NY-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.	NY-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.	NY-1.OA.8	53, 65			DT Grade 1 Operations 8 MM Addition Sprints MM Subtraction Sprints	
Number and Operations in Base Ten	Count to 120.	NY-1.NBT.1	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.	NY-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 $<$ .	NY-1.NBT.3	81, 86			DT Grade 1 Number 7, 18	Grade 1 Number and Algebra: Whole Numbers Test 6
	Add within 100 using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction.	NY-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.	NY-1.NBT.5, NY-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; Express the length of an object as a whole number; Subtract multiples of 10.	NY-1.MD.1, NY-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; Recognize and identify coins. Count collections of coins.	NY-1.MD.3	54, 64, 70, 83, 87			DT Grade 1 Measurement 1, 3, 5–10, 15	Grade 1 Measurement: Time Tests 1–5 Grade 1 Number and Algebra: Fractions and Money Tests 4–8
	Organize, represent, and interpret data.	NY-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.	NY-1.G.1, NY-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.	NY-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







# Mathseeds Lessons and New York Learning Standards



## 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	Use addition and subtraction within 100 to solve one- and two-step word problems.	NY-2.OA.1	118, 131, 137, 139				Grade 2 Number and Algebra: Addition and Subtraction Test 9
	Fluently add and subtract within 20 using mental strategies.	NY-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.	NY-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.	NY-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.	NY-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.	NY-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.	NY-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 $<$ symbols.	NY-2.NBT.4	122			DT Grade 2 Number 14, 15	Grade 2 Number and Algebra: Numbers to 1000 Test 7
	Fluently add and subtract within 100 using strategies based on place value; Add up to four two-digit numbers.	NY-2.NBT.5, NY-2.NBT.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.	NY-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 to a given number 100–900, and mentally subtract 10 or 100 from a given number 100–900.	NY-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.	NY-2.MD.1, NY-2.MD.3, NY-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.	NY-2.MD.5, NY-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.	NY-2.MD.7	114, 123, 127			DT Grade 2 Measurement 7, 20	Grade 2 Measurement: Time Tests 1–6
	Solve problems involving quarters, dimes, nickels, and pennies.	NY-2.MD.8	125, 147			DT Grade 2 Measurement 12	Grade 2 Number and Algebra: Fractions and Money Tests 4–7
	Represent and interpret data.	NY-2.MD.9, NY-2.MD.10	143			DT Grade 2 Data and Chance 1, 4, 5, 7–14	Grade 2 Statistics: Data Tests 1–5
Geometry	Classify shapes as polygons.	NY-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; Recognize that equal shares of identical wholes need not have the same shape.	NY-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





# Mathseeds Lessons and New York Learning Standards



## GRADE 3



Domains	Standards	Codes	Mathseeds Lesson #			Additional Mathseeds Resources
			Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency
			Online Lesson and Printable Resources	End-of-lesson Quiz	Critical Thinking and Problem Solving Worksheets	Mental Minute (MM)
Operations and Algebraic Thinking	Interpret products of whole numbers.	NY-3.OA.1	155			MM Multiplication Sprints
	Interpret whole-number quotients of whole numbers.	NY-3.OA.2	165			MM Division Sprints
	Use multiplication and division within 100 to solve word problems.	NY-3.OA.3	168, 196			
	Determine the unknown whole number in a multiplication or division equation relating three whole numbers.	NY-3.OA.4	186			MM Multiplication Sprints MM Division Sprints
	Apply properties of operations as strategies to multiply and divide; Understand division as an unknown-factor problem.	NY-3.OA.5, NY-3.OA.6	181, 190			MM Multiplication Sprints MM Division Sprints
	Fluently multiply and divide within 100.	NY-3.OA.7	158, 171, 176, 199			MM Multiplication Sprints MM Division Sprints
	Solve two-step word problems using the four operations.	NY-3.OA.8	183, 188, 195			
	Identify and extend arithmetic patterns.	NY-3.OA.9	153, 166			
Number and Operations in Base Ten	Use place value understanding to round whole numbers to the nearest 10 or 100.	NY-3.NBT.1	194			
	Fluently add and subtract within 1000.	NY-3.NBT.2	163, 170, 173, 178			MM Addition Sprints MM Subtraction Sprints
	Multiply one-digit whole numbers by multiples of 10.	NY-3.NBT.3	193			MM Multiplication Sprints
	Read and write four-digit numbers using base ten numerals, number names, and expanded form.	NY-3.NBT.4	151, 156, 161			
Number and Operations- Fractions	Understand a fraction $\frac{1}{b}$ as the quantity formed by 1 part when a whole is partitioned into b equal parts.	NY-3.NF.1	175			
	Understand a fraction as a number on the number line; represent fractions on a number line.	NY-3.NF.2	160			
	Explain equivalence of fractions and compare fractions by reasoning about their size.	NY-3.NF.3	180, 197			
Measurement and Data	Tell and write time to the nearest minute and measure time intervals in minutes.	NY-3.MD.1	162, 179, 185, 189			
	Measure and estimate volumes of objects using standard units of liters. Add, subtract, multiply, or divide to solve one-step word problems.	NY-3.MD.2	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.	NY-3.MD.2	172			
	Represent and interpret data.	NY-3.MD.3, NY-3.MD.4	174, 182, 187, 198			
	Geometric measurement: understand concepts of area and relate area to multiplication and to addition.	NY-3.MD.5, NY-3.MD.6, NY-3.MD.7	157, 200			
	Geometric measurement: recognize perimeter.	NY-3.MD.8	192			
Geometry	Recognize and classify polygons based on the number of sides and vertices.	NY-3.G.1	169			
	Partition shapes into parts with equal areas.	NY-3.G.2	184			

