

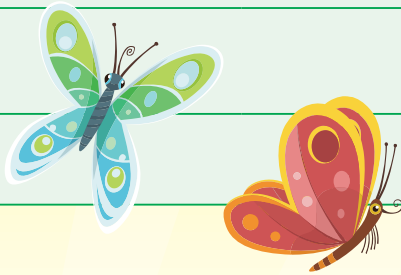


Iowa Core Mathematics Standards



KINDERGARTEN

				Mathseeds Lesson #			Additional Mathseeds Resources	
				Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency	Assessment
Domain	Standard	Cluster	Code	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
Counting and Cardinality	Know number names and the count sequence.	Count forward to 100; Count backwards from 10; Write numerals to 20.	K.CC.A.1 K.CC.A.2 K.CC.A.3	1, 2, 3, 5, 7, 10, 11, 12, 14, 16, 17, 18, 19, 20, 21, 25, 28, 33, 41, 43, 45, 46, 48, 50			DT Kindergarten Number 2, 4, 5, 9–13, 16, 17, 21, 23	Kindergarten Number Test 1, 2
	Count to tell the number of objects.	Connect counting to cardinality; Answer “how many?” questions.	K.CC.B.4 K.CC.B.5	5, 7, 8, 11, 12, 16, 25, 31, 33, 36, 43, 45, 47, 48, 50, 63		12, 19, 30, 31, 46, 47	DT 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.	K.CC.C.6 K.CC.C.7	18, 22, 31, 41, 43, 45, 46		38	DT Kindergarten Number 6–8, 18–20	Kindergarten Number Test 3
Operations and Algebraic Thinking	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.	K.OA.A.1 K.OA.A.2 K.OA.A.3 K.OA.A.4 K.OA.A.5	21, 24, 25, 30, 31, 32, 34, 36, 40, 41, 45, 46, 47, 49, 50		34, 36, 40, 41	DT Kindergarten Operations 1–14, 16–20 MM Addition Sprints MM Subtraction Sprints	Kindergarten Operations Test 1–4
Number and Operations in Base Ten	Work with numbers 11–19 to gain foundations for place value.	Compose and decompose numbers from 11 to 19.	K.NBT.A.1	41, 43, 45, 46, 48, 50		43, 46, 47	DT Kindergarten Operations 2, 6, 9	Kindergarten Number Test 4
Measurement and Data	Describe and compare measurable attributes.	Identify and describe measurable attributes (length, height); Directly compare two objects with a measurable attribute.		13, 26			DT Kindergarten Measurement 2, 3, 5, 6, 9, 10	Kindergarten Measurement Test 1–3
		Identify and describe measurable attributes (weight); Directly compare two objects with a measurable attribute.		29, 73, 135		135	DT Kindergarten Measurement 7, 8, 12	Kindergarten Measurement Test 4 Grade 2 Measurement: Informal Units Test 6, 7
		Identify and describe measurable attributes; Directly compare two objects with a measurable attribute.	K.MD.A.1 K.MD.A.2	38, 39, 42, 89, 109, 116		37, 38, 109	DT Kindergarten Measurement 1, 4, 11, 13–20 DT Grade 1 Measurement 11, 17–19 DT Grade 2 Measurement 1–5, 8, 14, 16	Kindergarten Measurement Test 5–7 Grade 1 Measurement: Length and Capacity Test 6, 7 Grade 2 Measurement: Informal Units Test 4, 5
	Classify objects and count the number of objects in each category.	Classify objects into given categories of 10; Count and sort the number of objects in each category.	K.MD.B.3				DT Kindergarten Data 1–10	Kindergarten Data Test 1, 2
Geometry	Identify and describe shapes. & Analyze, compare, create, and compose shapes.	Describe objects in the environment and describe the relative positions of these objects.	K.G.A.1	57, 78, 94		57, 78, 94	DT Kindergarten Geometry 9–11, 13, 14 DT Grade 1 Geometry 4, 5, 11, 12, 14–16 DT Grade 2 Geometry 2, 8, 11, 13	Kindergarten Geometry Test 5, 6 Grade 1 Geometry: Shape Test 7, 8
		Correctly name shapes (2D) regardless of their orientations or overall sizes; Analyze and compare two dimensional shapes in different sizes and orientations.	K.G.A.2 K.G.B.4	4, 6, 9, 15, 23, 27, 37		6, 8, 15, 23, 27	DT Kindergarten Geometry 1–8, 19, 20	Kindergarten Geometry Test 1, 3
		Correctly name shapes (3D) regardless of their orientations or overall sizes; Analyze and compare three dimensional shapes in different sizes and orientations.	K.G.A.2 K.G.B.4	35, 44			DT Kindergarten Geometry 15–23	Kindergarten Geometry Test 2, 3
		Compose simple shapes to form larger shapes.	K.G.B.6				DT Kindergarten Geometry 12	Kindergarten Geometry Test 4



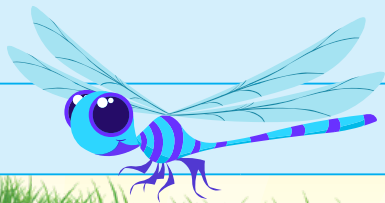


Iowa Core Mathematics Standards



GRADE 1

				Mathseeds Lesson #			Additional Mathseeds Resources	
Domain	Standard	Cluster	Code	Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency	Assessment
				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 and Algebraic Thinking	Represent and solve problems involving addition and subtraction.	Use addition and subtraction within 20; Solve word problems that call for addition of three whole numbers.	1.OA.A.1 1.OA.A.2	51, 53, 58, 65, 68, 72, 85, 91		65, 68, 77, 83, 91, 93	DT Grade 1 Operations 2 MM Addition Sprints MM Subtraction Sprints	Grade 1 Number and Algebra: Operations Tests 3, 4
	Understand and apply properties of operations and the relationship between addition and subtraction.	Apply properties of operations as strategies to add and subtract; Understand subtraction as an unknown-addend problem.	1.OA.B.3 1.OA.B.4	93, 100		93	DT Grade 1 Operations 6, 16 MM Addition Sprints MM Subtraction Sprints	Grade 1 Number and Algebra: Operations Test 5
	Add and subtract within 20.	Relate counting to addition and subtraction; Add and subtract within 20.	1.OA.C.5 1.OA.C.6	56, 58, 68, 72, 77, 85		56, 68, 77	DT Grade 1 Operations 1, 3, 4, 5, 7, 9 MM Addition Sprints MM Subtraction Sprints	Grade 1 Number and Algebra: Operations Test 1, 2
	Work with addition and subtraction equations.	Understand the meaning of the equal sign, and determine if equations involving addition and subtraction as true or false.	1.OA.D.7	76			DT Grade 1 Operations 10, 11 MM Addition Sprints MM Subtraction Sprints	
		Solve for the unknown number in various positions in an addition or subtraction equation.	1.OA.D.8	51, 53, 56, 58, 65, 68, 72, 85, 91, 93, 95, 96, 98, 100			DT Grade 1 Operations 8, 10, 11 MM Addition Sprints MM Subtraction Sprints	
Operations with Numbers: Base Ten	Extend the counting sequence.	Extend the number sequence from 0 to 120.	1.NBT.A.1	60, 67, 75, 81, 86, 90		60, 67	DT Grade 1 Number 1–6, 8, 11–17, 21–24	
	Understand place value.	Understand that the two digits of a two-digit number represents amounts of tens and ones.	1.NBT.B.2	88		88	DT Grade 1 Number 9, 10, 19	Grade 1 Number and Algebra: Whole Numbers Test 1–5
		Compare two two-digit numbers with the symbols $>$, $=$, and $<$.	1.NBT.B.3	56, 60, 81, 86		60, 80, 83	DT Grade 1 Number 7, 18	Grade 1 Number and Algebra: Whole Numbers Test 6
	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.	1.NBT.C.4	88, 95, 96, 98		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 from multiples of 10 in the range of 10–90.	1.NBT.C.5 1.NBT.C.6	79, 98			DT Grade 1 Operations 13, 14, 19, 20 MM Addition Sprints MM Subtraction Sprints	Grade 1 Number and Algebra: Patterns Test 1–7
Measurement and Data	Measure lengths indirectly and by iterating length units.	Order three objects by length; Compare the lengths of two objects indirectly; Express the length of an object as a whole number of length units.	1.MD.A.1 1.MD.A.2	55, 84			DT Grade 1 Measurement 2, 4, 13, 14	Grade 1 Measurement: Length Tests 1–5
	Tell and write time.	Tell and write time to the hours and half hours using analog and digital clocks.	1.MD.B.3	54, 70, 87		87	DT Grade 1 Measurement 1, 8, 9, 10, 15	Grade 1 Measurement: Time Tests 1–5
	Represent and interpret data.	Organize, represent, and interpret data with up to three categories; ask and answer questions about the total number of data points, how many in each category, and how many more or less are in one category than in another.	1.MD.C.4	80, 97		80	DT Grade 1 Data 1–4, 6, 9, 10, 12–16	Grade 1 Statistics: Data Tests 1–5
Geometry	Reason with shapes and their attributes.	Distinguish between defining attributes versus non-defining attributes; build and draw shapes to possess defining attributes; Compose two-dimensional shapes or three-dimensional shapes to create a composite shape, and compose new shapes from the composite shape.	1.G.A.1 1.G.A.2	52, 62, 69, 99		69	DT Grade 1 Geometry 9, 10, 13	Grade 1 Geometry: Shape Test 1–7 Grade 1 Number and Algebra: Fractions and Money Test 1, 2
		Partition circles and rectangles into two and four equal shares and describe the shares.	1.G.A.3	61, 66			DT Grade 1 Patterns and Fractions 5, 6, 13, 14	Grade 1 Number and Algebra: Fractions and Money Test 1, 2

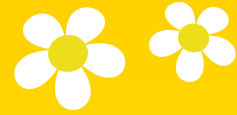




Iowa Core Mathematics Standards



GRADE 2



				Mathseeds Lesson #			Additional Mathseeds Resources	
Domain	Standard	Cluster	Code	Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency	Assessment
				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 and Algebraic Thinking	Represent and solve problems involving addition and subtraction.	Use addition and subtraction within 100 to solve one- and two-step word problems.	2.OA.A.1	103, 110, 111, 113, 118, 120, 124, 128, 131, 133, 134, 137, 139, 148, 150		112, 118, 124, 125, 128, 132, 133, 134, 136, 139, 144, 146, 147, 150	MM Addition Sprints MM Subtraction Sprints	Grade 2 Number and Algebra: Addition and Subtraction Test 9
	Add and subtract within 20.	Fluently add and subtract within 20 using mental strategies.	2.OA.B.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
	Work with equal groups of objects to gain foundations for multiplication.	Determine whether a group of up to 20 objects is even or odd.	2.OA.C.3	108			DT Grade 2 Operations 3	Grade 2 Number and Algebra: Numbers to 1000 Test 6
		Use addition to find the total number of objects arranged in rectangular arrays.	2.OA.C.4	111, 113, 115, 130		113, 130, 136	DT Grade 2 Operations 8, 9, 10, 19 MM Multiplication Sprints	Grade 2 Number and Algebra: Equal Groups Test 1–5
Number and Operations in Base Ten	Understand place value.	Understand that the three digits of a three-digit number represent amounts of hundreds, tens, and ones.	2.NBT.A.1	101, 105, 106		105	DT Grade 2 Number 4, 8, 16, 18–22	Grade 2 Number and Algebra: Numbers to 1000 Test 5, 8
		Count within 1000; skip-count by 5s, 10s, and 100s.	2.NBT.A.2	101, 105, 106, 117, 129		105, 112, 132, 133	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 Test 1–7
		Read and write numbers to 1000 using base-ten numerals, number names, and expanded form.	2.NBT.A.3	106			DT Grade 2 Number 1, 5, 23, 24	Grade 2 Number and Algebra: Numbers to 1000 Test 1, 2, 3, 4
		Compare two three-digit numbers based on the value of the hundreds, tens, and ones digits, using the symbols $>$, $=$, and $<$.	2.NBT.A.4	122			DT Grade 2 Number 14, 15	Grade 2 Number and Algebra: Numbers to 1000 Test 7
	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.	2.NBT.B.5 2.NBT.B.6	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 Test 2–4, 7
		Add and subtract within 1000.	2.NBT.B.7	128, 129, 134, 144, 146		134, 144, 146	DT Grade 2 Operations 18, 24, 25, 26 MM Addition Sprints MM Subtraction Sprints	Grade 2 Number and Algebra: Addition and Subtraction Test 5, 6, 8
		Mentally add and subtract 10 or 100 to a given number between 100 and 900.	2.NBT.B.8	148			DT Grade 2 Operations 27, 28 MM Addition Sprints MM Subtraction Sprints	
Measurement and Data	Measure and estimate length in standard units.	Measure and estimate length of an object using standard units of measurement.	2.MD.A.1 2.MD.A.2 2.MD.A.3 2.MD.A.4	104, 126			DT Grade 2 Measurement 9, 11, 13, 15, 21–24	Grade 2 Measurement: Informal Units Test 3–7
	Relate addition and subtraction to length.	Use addition and subtraction within 100 to solve word problems involving same units of length; Represent whole numbers as lengths from 0 on a number line diagram.	2.MD.B.5 2.MD.B.6	141			DT Grade 2 Measurement 19	Grade 2 Measurement: Informal Units Test 8
	Work with time and money.	Tell and write time from analog and digital clocks to the nearest five minutes, using a.m. and p.m.	2.MD.C.7	109, 114, 123, 127			DT Grade 2 Measurement 7, 20	Grade 2 Measurement: Time Test 1–6
		Solve word problems involving dollar bills, quarters, dimes, nickels, and pennies.	2.MD.C.8	64, 83, 92, 125, 147, 159		125, 147	DT Grade 1 Measurement 3, 5, 6, 7, 12 DT Grade 2 Measurement 12	Grade 1 Number and Algebra: Fractions and Money Tests 4–8 Grade 2 Number and Algebra: Fractions and Money Test 4–7
	Represent and interpret data.	Generate measurement data by measuring lengths of several objects; Draw a picture graph and a bar graph to represent a data set with up to four categories. Solve simple put-together, take-apart, and compare problems using information presented in a bar graph.	2.MD.D.9 2.MD.D.10	143			DT Grade 2 Data and Chance 1, 4, 5, 7–14	Grade 2 Statistics: Data Test 1–5
Geometry	Reason with shapes and their attributes.	Recognize and draw shapes having specified attributes. Identify triangles, quadrilaterals, pentagons, hexagons, and cubes.	2.G.A.1	119, 121, 145		102, 119, 121, 140	DT Grade 2 Geometry 3–7, 10	Grade 2 Geometry: Shapes Test 1–5
		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.	2.G.A.2 2.G.A.3	132			DT Grade 2 Patterns and Fractions 11, 12, 14, 16	Grade 2 Number and Algebra: Fractions and Money Test 1–3



Iowa Core Mathematics Standards



GRADE 3

Domain	Standard	Cluster	Code	Mathseeds Lesson #			Additional Mathseeds Resources	
				Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency	Assessment
				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 and Algebraic Thinking	Represent and solve problems involving multiplication and division	Illustrate the product of two whole numbers as equal groups.	3.OA.A.1	74, 155		153, 168, 176, 181, 186, 188, 196	MM Multiplication Sprints	
		Illustrate and interpret the quotient of two whole numbers.	3.OA.A.2	71, 136, 165, 181, 190			MM Division Sprints	
		Use multiplication and division within 100 to solve word problems.	3.OA.A.3	168, 196		168, 196	MM Multiplication Sprints MM Division Sprints	
		Determine the unknown whole number in a multiplication or division equation relating three whole numbers.	3.OA.A.4	186		186	MM Multiplication Sprints MM Division Sprints	
	Understand properties of multiplication and the relationships between multiplication and division	Apply properties of operations as strategies to multiply and divide; Understand division as an unknown-factor problem.	3.OA.B.5 3.OA.B.6	181, 190		181	MM Multiplication Sprints MM Division Sprints	
	Multiply and divide within 100.	Fluently multiply and divide within 100.	3.OA.C.7	155, 158, 165, 171, 176, 196, 199		186, 188, 193, 199	MM Multiplication Sprints MM Division Sprints	
	Solve problems involving the four operations and identify and explain patterns in arithmetic.	Solve two-step word problems using the four operations. Represent these problems using equations with a letter standing for the unknown quantity.	3.OA.D.8	183, 188, 195		183, 188, 195	MM Addition Sprints MM Subtraction Sprints MM Multiplication Sprints MM Division Sprints	
		Identify arithmetic patterns, and explain them using properties of operations.	3.OA.D.9	77, 79, 90, 153, 158, 166, 195		77		
Number and Operations in Base Ten	Use place value understanding and properties of operations to perform multi-digit arithmetic.	Use place value understanding to round whole numbers to the nearest 10 or 100.	3.NBT.A.1	129, 194		194		
		Fluently add and subtract within 1000.	3.NBT.A.2	163, 170, 173, 178		170, 172, 178, 183, 188, 195	MM Addition Sprints MM Subtraction Sprints	
		Multiply one-digit whole numbers by multiples of 10 in the range 10-90 using strategies based on place value and properties of operations.	3.NBT.A.3	193			MM Multiplication Sprints	
Number and Operations- Fractions	Develop understanding of fractions as numbers.	Understand a fraction $\frac{1}{b}$ as the quantity formed by 1 part when a whole is partitioned into b equal parts; understand a fraction $\frac{a}{b}$ as the quantity formed by a parts of size $\frac{1}{b}$.	3.NF.A.1	138, 175		175		
		Understand a fraction as a number on the number line; represent fractions on a number line diagram.	3.NF.A.2	160, 191				
		Explain equivalence and compare fractions by reasoning about their size.	3.NF.A.3	180, 191, 197		180, 197		
Measurement and Data	Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects.	Tell and write time to the nearest minute; measure time intervals in minutes; Solve word problems involving addition and subtraction of time intervals in minutes.	3.MD.A.1	162, 179, 185, 189				
		Measure and estimate liquid volumes and masses of objects using standard units. Add, subtract, multiply, or divide to solve one-step word problems involving masses or volumes that are given in the same units.	3.MD.A.2	116, 135, 154, 172		154		
	Represent and interpret data.	Draw a scaled picture graph and a scaled bar graph to represent a data set with several categories. Solve one- and two-step problems using information presented in scaled bar graphs; Generate measurement data by measuring lengths. Show the data by making a line plot.	3.MD.B.3 3.MD.B.4	174, 182, 187, 198				
		Understand concepts of area and relate area to multiplication and to addition.	3.MD.C	59, 149, 157, 200		182		
	Geometric measurement	Recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.	3.MD.D	192				
Geometry	Reason with shapes and their attributes.	Understand that shapes in different categories may share attributes, and that the shared attributes can define a larger category. Recognize rhombuses, rectangles, and squares as examples of quadrilaterals, and draw examples of quadrilaterals that do not belong to any of these subcategories.	3.G.A.1	169, 184				

