



# Georgia Mathematics Standards 2021



## KINDERGARTEN

Big Ideas	Expectations	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
Numerical Reasoning	Count up to 20 objects in structured and scattered arrangements; Explain that the last number counted represents the total; Identify the number that is one more or one less; Identify written numerals 0-20 and represent a number of objects with a written numeral; Compare two sets of up to 10 objects and identify whether the number of objects in one group is more or less than the other group, using the words “greater than,” “less than,” or “the same as”.	K.NR.1.1, K.NR.1.2, K.NR.1.3, K.NR.4.1, K.NR.4.2	1, 2, 3, 5, 7, 10, 11, 12, 14, 16, 17, 18, 19, 20, 21, 22, 25, 30, 31, 32, 33, 34, 36, 41, 43, 45, 46, 48, 50		12, 41	DT Kindergarten Number 1 - 4, 6 - 8, 10 - 15, 17 - 20, 24, 25	Kindergarten Number Tests 2, 3
	Identify pennies, nickels and dimes and know their name and value.	K.NR.1.4					Kindergarten Number Test 5
	Count forward to 100 by tens and ones and backward from 20 by ones; Count forward beginning from any number within 100 and count backwards from any number within 20.	K.NR.2.1, K.NR.2.2	10, 16, 18, 19, 20, 21, 25, 28, 50			DT Kindergarten Number 5, 9, 16, 21 - 23	Kindergarten Number Test 1
	Describe numbers from 11 to 19 by composing and decomposing the numbers into ten ones and some more ones.	K.NR.3.1	41, 43, 45, 46, 50		41, 43	DT Kindergarten Number 11 - 13	Kindergarten Number Test 4
	Compose and decompose numbers up to 10 using objects and drawings; Represent addition and subtraction within 10 from a situation using a variety of representations and strategies; Use a variety of strategies to solve addition and subtraction problems within 10; Fluently add and subtract within 5 using a variety of strategies to solve practical, mathematical problems.	K.NR.5.1, K.NR.5.2, K.NR.5.3, K.NR.5.4	24, 30, 31, 32, 34, 36, 40, 47, 49, 50		19, 30, 31, 34, 36, 40, 46, 47	DT Kindergarten Operations 1 - 25 MM Addition Sprints MM Subtraction Sprints	Kindergarten Operations Tests 1 - 4
Patterning & Algebraic Reasoning	Create, extend and describe repeating patterns with numbers and shapes, and explain the rationale for the pattern.	K.PAR.6.1	27, 37		6, 8, 15, 23, 27, 37	DT Kindergarten Patterns 1 - 9	Kindergarten Number Test 6
	Describe patterns involving the passage of time using words and phrases related to actual events.	K.PAR.6.2	39, 42			DT Kindergarten Measurement 1, 4, 13, 14, 17 - 19	Kindergarten Measurement Tests 6, 7
Measurement & Data Reasoning	Directly compare, describe, and order common objects, using measurable attribute (length, height, width) and describe the difference.	K.MDR.7.1	13, 26			DT Kindergarten Measurement 2, 3, 5, 6, 9, 10	Kindergarten Measurement Tests 1 - 3
	Directly compare, describe, and order common objects, using measurable attribute (weight) and describe the difference.	K.MDR.7.1	29			DT Kindergarten Measurement 7, 8, 11, 12	Kindergarten Measurement Test 4
	Directly compare, describe, and order common objects, using measurable attribute (volume, capacity) and describe the difference.	K.MDR.7.1	38		38	DT Kindergarten Measurement 11, 15, 16, 20	Kindergarten Measurement Test 5
	Classify and sort up to ten objects into categories by an attribute; Count the number of objects in each category and sort the categories by count; Ask questions and answer them based on gathered information, observations, and appropriate graphical displays to solve problems relevant to everyday life.	K.MDR.7.2, K.MDR.7.3				DT Kindergarten Data 1 - 10	Kindergarten Data Tests 1, 2
Geometric & Spatial Reasoning	Identify, sort, classify, analyze and compare two-dimensional shapes in different sizes and orientations; Use basic shapes to represent specific shapes found in the environment by creating models and drawings	K.GSR.8.1, K.GSR.8.3	4, 6, 9, 15, 23		6, 15, 23	DT Kindergarten Geometry 1 - 8, 20	Kindergarten Geometry Tests 1, 3
	Identify, sort, classify, analyze and compare three-dimensional figures in different sizes and orientations.	K.GSR.8.1	35, 44			DT Kindergarten Geometry 15 - 23	Kindergarten Geometry Tests 2, 3
	Describe the relative location of an object using positional words.	K.GSR.8.2	57, 78, 94		57, 78, 94	DT Kindergarten Geometry 9 - 11, 13, 14 DT Grade 1 Geometry 4, 5, 11, 12, 14 - 16	Kindergarten Geometry Tests 5, 6 Grade 1 Geometry: Shape Tests 7, 8
	Use two or more basic shapes to form larger shapes.	K.GSR.8.4				DT Kindergarten Geometry 12	Kindergarten Geometry Test 4



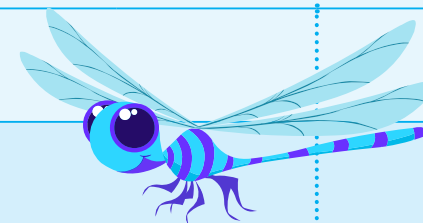


# Georgia Mathematics Standards 2021



## GRADE 1

Big Ideas	Expectations	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
Numerical Reasoning	Count within 120, forward and backward, starting at any number; Read and write numerals and represent a number of objects with a written numeral; Explain that the two digits of 2-digit number represent the amounts of tens and ones; Compare and order whole numbers up to 100 using concrete models, drawings and the symbols $>$ , $=$ , and $<$ .	1.NR.1.1, 1.NR.1.2, 1.NR.1.3	56, 60, 63, 67, 75, 81, 86		56, 60, 67, 75, 81	DT Grade 1 Number 1 - 24	<b>Grade 1 Number and Algebra: Whole Numbers</b> Tests 1 - 9 <b>Grade 1 Number and Algebra: Place Value</b> Tests 1 - 6
	Use a variety of strategies to solve addition and subtraction problems within 20 and with one- and two-digit whole numbers; Fluently add and subtract within 10 using a variety of strategies; Apply properties of operations as strategies to solve addition and subtraction problem situations within 20.	1.NR.2.1, 1.NR.2.2, 1.NR.2.4, 1.NR.2.7, 1.NR.5.1	53, 58, 65, 68, 72, 85, 88, 91, 92, 95, 100		51, 53, 65, 68, 72, 76, 85, 88, 91, 95, 100	DT Grade 1 Operations 1, 3 - 15 MM Addition Sprints MM Subtraction Sprints	
	Recognize the inverse relationship between subtraction and addition within 20 and use this inverse relationship to solve authentic problems; Use the meaning of the equal sign to determine whether equations involving addition and subtraction are true or false; Determine the unknown whole number in an addition or subtraction equation relating to three whole numbers.	1.NR.2.3, 1.NR.2.5, 1.NR.2.6	51, 76, 93, 100		51, 76, 83, 85, 93, 100	DT Grade 1 Operations 2, 16	
	Given a two-digit number, mentally find 10 more or 10 less than the number without having to count; explain the reasoning used; Add and subtract multiples of 10 within 100.	1.NR.5.2, 1.NR.5.3	96, 98		96, 98	DT Grade 1 Operations 17 - 20	
Patterning & Algebraic Reasoning	Investigate, create, and make predictions and repeating patterns with a core of up to 3 elements resulting from repeating an operation, as a series of shapes, or a number string.	1.PAR.3.1			63	DT Grade 1 Patterns and Fractions 1, 2, 4, 10, 12	<b>Grade 1 Number and Algebra: Patterns</b> Tests 2, 3, 5
	Identify, describe, and create growing, shrinking, and repeating patterns based on the repeated addition or subtraction of 1s, 2s, 5s and 10s.	1.PAR.3.2	77, 79, 90		77, 79	DT Grade 1 Patterns and Fractions 7 - 10	<b>Grade 1 Number and Algebra: Patterns</b> Tests 1, 3, 4, 6, 7
Geometric & Spatial Reasoning	Identify common two-dimensional shapes, sort and classify them by their attributes and build and draw shapes that possess defining attributes; Compose two-dimensional shapes to create a shape formed of two or more common shapes and compose new shapes from the composite shape.	1.GSR.4.1, 1.GSR.4.2	52, 69, 102		52, 69	DT Grade 1 Geometry 1 - 3, 6, 9, 10, 13	<b>Grade 1 Geometry: Shape</b> Tests 1, 2, 5, 6
	Identify common three-dimensional figures, sort and classify them by their attributes and build and draw shapes that possess defining attributes; Compose three dimensional figures to create a shape formed of two or more common shapes and compose new shapes from the composite shape.	1.GSR.4.1, 1.GSR.4.2	62, 69, 99		62	DT Grade 1 Geometry 7 - 9, 17 - 19	<b>Grade 1 Geometry: Shape</b> Tests 3 - 6
	Partition circles and rectangles into two and four equal shares.	1.GSR.4.3	61, 66			DT Grade 1 Patterns and Fractions 3, 5, 6, 11	<b>Grade 1 Number and Algebra: Fractions and Money</b> Tests 1 - 3, 7
Measurement & Data Reasoning	Estimate, measure, and record lengths of objects using non-standard units, and compare and order up to three objects using the recorded measurements. Describe the objects compared.	1.MDR.6.1	55, 88			DT Grade 1 Measurement 2, 4, 13, 14	<b>Grade 1 Measurement: Length and Capacity</b> Tests 1 - 5
	Tell and write time in hours and half-hours using analog and digital clocks, and measure elapsed time to the hour on the hour using a predetermined number line.	1.MDR.6.2	54, 70, 87		87	DT Grade 1 Measurement 1, 8-10, 15, 16	<b>Grade 1 Measurement: Time</b> Tests 1-6
	Identify the value of quarters and compare the values of pennies, nickels, dimes, and quarters.	1.MDR.6.3	64, 83, 92		83	DT Grade 1 Measurement 3, 5 - 7, 12	<b>Grade 1 Number and Algebra: Fractions and Money</b> Tests 4 - 8
	Ask questions and answer them based on gathered information, observations, appropriate graphical displays to compare and order whole numbers.	1.MDR.6.4	80, 97		80	DT Grade 1 Data 1 - 3, 9, 10, 12 - 16	<b>Grade 1 Statistics: Data</b> Tests 1 - 5







# Georgia Mathematics Standards 2021



## GRADE 2



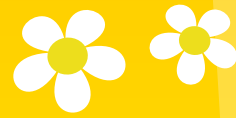
Big Ideas	Expectations	Code	Mathseeds Lesson #			Additional Mathseeds Resources	
			Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency	Assessment
			Online Lesson, Printable Resources, & Problem Solving Tasks	End-of-lesson Quiz	Critical Thinking and Problem Solving Interactives	Driving Tests (DT) Mental Minute (MM)	Printable Achievement Standards Assessment
Numerical Reasoning	Explain the value of a three-digit number using hundreds, tens, and ones in a variety of ways; Represent, compare, and order whole numbers to 1000 with an emphasis on place value and equity. Use $>$ , $=$ , and $<$ symbols to record the results of comparisons.	2.NR.1.1, 2.NR.1.3	101, 105, 106, 122		105, 106	DT Grade 2 Number 1 - 24	Grade 2 Number and Algebra: Numbers to 1000 Tests 1 - 7
	Count forward and backward by ones from any number within 1000. Count forward by 5s, 10s and 100s from any number within 1000. Count forward by 25s from 0.	2.NR.1.2	117, 133		117	DT Grade 2 Patterns and Fractions 1 - 4, 6 - 10, 13	Grade 2 Number and Algebra: Number Patterns Tests 1 - 6
	Fluently add and subtract within 20 using a variety of mental, part-whole strategies;	2.NR.2.1	103, 142		142	DT Grade 2 Operations 2, 5	Grade 2 Number and Algebra: Addition and Subtraction Tests 1, 2
	Solve problems involving the addition and subtraction of two-digit numbers using part-whole strategies.	2.NR.2.3	103, 110, 118, 120, 124, 125, 128, 129, 131, 134, 137, 139, 140, 141, 142, 147, 148, 150		104, 110, 118, 120, 124, 128, 131, 134, 137, 139, 141, 142, 150	DT Grade 2 Operations 16 - 18, 20 - 26	Grade 2 Number and Algebra: Addition and Subtraction Tests 1 - 8
	Find 10 more or 10 less than a given three-digit number and find 100 more or 100 less than a given three-digit number; Fluently add and subtract within 100 using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction.	2.NR.2.2, 2.NR.2.4	110, 148		148	DT Grade 2 Operations 7, 13, 27, 28	
	Determine whether a group has an odd or even number of objects. Write an equation to express an even number as a sum of two equal addends.	2.NR.3.1	108, 166		108	DT Grade 2 Operations 3	
	Use addition to find the total number of objects arranged in rectangular arrays with up to 5 rows and up to 5 columns; write an equation to express the total as a sum of equal addends.	2.NR.3.2	71, 74, 111, 113		113	DT Grade 2 Operations 6, 8 - 12, 19	Grade 2 Number and Algebra: Equal Groups Tests 1 - 5
Patterning & Algebraic Reasoning	Identify, describe and create a numerical pattern resulting from repeating an operation; Identify, describe, and create growing patterns and shrinking patterns involving addition and subtraction up to 20.	2.PAR.4.1, 2.PAR.4.2	102, 117, 133, 137, 140		101, 102, 117, 133, 137	DT Grade 2 Patterns and Fractions 1 - 4, 6 - 10, 13 DT Grade 2 Geometry 12	Grade 2 Number and Algebra: Number Patterns Tests 1 - 8 Grade 2 Geometry: Shape and Movement Test 7
Measurement & Data Reasoning	Construct simple measuring instruments using unit models. Compare unit models to rulers; Estimate and measure the length of an object or distance to the nearest whole unit using appropriate units and standard measuring tools; Measure to determine how much longer one object is than another and express the length difference in terms of a standard-length unit.	2.MDR.5.1, 2.MDR.5.2, 2.MDR.5.3	104, 126, 140, 143		104, 141	DT Grade 2 Measurement 6, 9, 11, 13, 15, 19, 21 - 24	Grade 2 Measurement: Informal Units Tests 1, 2, 8
	Ask questions and answer them based on gathered information, observations, and appropriate graphical displays to solve problems relevant to everyday life.	2.MDR.5.4	140, 143		143	DT Grade 2 Data and Chance 1, 4, 5, 7 - 14	Grade 2 Statistics: Data Tests 1 - 6
	Represent whole-number sums and differences within a standard unit of measurement on a number line diagram.	2.MDR.5.5	58, 110, 150		110, 113, 139	DT Grade 2 Operations 1, 4, 14, 15	
	Tell and write time from analog and digital clocks to the nearest five minutes, and estimate and measure elapsed time using a timeline.	2.MDR.6.1	109, 114, 123, 127		109	DT Grade 2 Measurement 1 - 5, 7, 10, 14, 16, 20	Grade 2 Measurement: Time Tests 1 - 5
	Find the value of a group of coins and determine combinations of coins that equal a given amount that is less than one hundred cents, and solve problems involving dollar bills, quarters, dimes, nickels, and pennies, using \$ and ¢ symbols appropriately.	2.MDR.6.2	125, 147, 159		125, 131, 147	DT Grade 2 12	Grade 2 Number and Algebra: Fractions and Money Tests 5 - 8
Geometric & Spatial Reasoning	Describe, compare and sort 2-D shapes given a set of attributes.	2.GSR.7.1	102, 119, 140, 145		102, 119, 121, 140, 145	DT Grade 2 Geometry 1, 2, 4 - 7, 9 - 12	Grade 2 Geometry: Shape and Movement Tests 1, 2, 5, 6
	Describe, compare and sort 3-D shapes given a set of attributes.	2.GSR.7.1	121		121, 140	DT Grade 2 Geometry 3, 5 - 7	Grade 2 Geometry: Shape and Movement Tests 3 - 5
	Identify at least one line of symmetry in everyday objects to describe each object as a whole.	2.GSR.7.2	152				
	Partition circles and rectangles into two, three or four equal shares. Identify and describe equal-sized parts of the whole using fractional names; Recognize that equal shares of identical wholes may be different shapes within the same whole.	2.GSR.7.3, 2.GSR.7.4	132, 138		132	DT Grade 2 Patterns and Fractions 5, 11, 12, 14 - 17	Grade 2 Number and Algebra: Fractions and Money Tests 1 - 4



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## GRADE 3



Big Ideas	Expectations	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
Numerical Reasoning	Read and write multi-digit whole numbers up to 10,000 using base-ten numerals and expanded form; Use place value reasoning to compare multi-digit numbers up to 10,000, using $>$ , $=$ , and $<$ symbols to record the results of comparisons; Use place value understanding to round whole numbers up to 1000 to the nearest 10 or 100.	3.NR.1.1, 3.NR.1.2, 3.NR.1.3	151, 156, 161, 194		151, 156, 161, 194		
	Describe a unit fraction and explain how multiple copies of a unit fraction form a non-unit fraction. Use parts of a whole, parts of a set, points on a number line, distances on a number line and area models; Compare two unit fractions by flexibly using a variety of tools and strategies.	3.NR.4.1, 3.NR.4.2	160, 175, 180, 191		175, 191		
	Represent fractions, including fractions greater than one, in multiple ways; Recognize and generate simple equivalent fractions.	3.NR.4.3, 3.NR.4.4	160, 180, 191, 197		175, 180, 191, 197		
Patterning & Algebraic Reasoning	Fluently add or subtract within 1000 to solve problems; Apply part-whole strategies, properties of operations and place value understanding, to solve problems involving addition and subtraction within 10,000.	3.PAR.2.1, 3.PAR.2.2	128, 134, 144, 146, 159, 163, 166, 170, 173, 178, 183, 188, 195		128, 134, 144, 146, 159, 163, 170, 173, 178, 183	MM Addition Sprints MM Subtraction Sprints	
	Describe, extend and create numeric patterns. Make predications related to the patterns.	3.PAR.3.1	153, 195		153, 195		
	Represent single digit multiplication and division facts using a variety of strategies. Explain the relationship between multiplication and division; Apply properties of operations to multiply and divide within 100.	3.PAR.3.2, 3.PAR.3.3	115, 130, 136, 155, 158, 165, 168, 171, 176, 181, 186, 190, 199		115, 130, 136, 168, 181, 199	MM Multiplication Sprints MM Division Sprints	
	Use place value reasoning and properties of operations to multiply one-digit whole numbers by multiples of 10, in the range 10-90	3.PAR.3.5	193		168, 193		
	Solve practical problems involving multiplication and division within 100 using part-whole strategies, visual representations, and/or concrete models; Use multiplication and division to solve problems involving whole numbers to 100.	3.PAR.3.6, 3.PAR.3.7	158, 168, 171, 176, 186, 188, 190, 193, 196		168, 176, 186, 188, 196		
Measurement & Data Reasoning	Ask questions and answer them based on gathered information, observations, and appropriate graphical displays to solve problems relevant to everyday life.	3.MDR.5.1	174, 187, 198		187		
	Tell and write time to the nearest minute and estimate time to the nearest fifteen minutes on an analog clock; Solve problems involving elapsed time where the time presented are on the hour, half hour, or quarter hour within a.m. or p.m.	3.MDR.5.2, 3.MDR.5.3	162, 179, 185, 189		179, 185, 189		
	Estimate and measure lengths of objects using customary units. Solve problems involving volume given the same unit, and reason about the relative sizes of measurement units within the customary system.	3.MDR.5.5	182		182		
	Estimate and measure liquid volumes of objects using customary units. Solve problems involving volume given the same unit, and reason about the relative sizes of measurement units within the customary system.	3.MDR.5.5	89, 116, 154		154	DT Grade 2 Measurement 8	Grade 2 Measurement: Informal Units Tests 4, 5, 8
	Estimate and measure masses of objects using customary units. Solve problems involving volume given the same unit, and reason about the relative sizes of measurement units within the customary system.	3.MDR.5.5	73, 135, 172		135, 172	DT Grade 2 Measurement 17, 18	Grade 2 Measurement: Informal Units Tests 6 - 8
Geometric & Spatial Reasoning	Identify perpendicular line segments, parallel line segments, and right angles, identify these in polygons, and solve problems involving parallel line segments, perpendicular line segments, and right angles.	3.GSR.6.1	177, 184				
	Classify, compare, and contrast polygons, with a focus on quadrilaterals, based on properties.	3.GSR.6.2	184				
	Analyze specific 3-dimensional figures to identify and describe quadrilaterals as faces of these figures.	3.GSR.6.2	169				
	Identify lines of symmetry in polygons.	3.GSR.6.3	152				
	Investigate area by covering the space of rectangles presented in realistic situations using multiple copies of the same unit, with no gaps or overlaps, and determine the total area; Determine the area of rectangles presented in relevant problems by tiling and counting.	3.GSR.7.1, 3.GSR.7.2	59, 112, 149, 157		59, 149		Grade 2 Measurement: Informal Units Tests 3, 8
	Discover and explain how area can be found by multiply the dimensions of a rectangle.	3.GSR.7.3	157, 200		200		
	Determine the perimeter of a polygon and explain that the perimeter represents the distance around a polygon. Solve problems involving perimeters of polygons.	3.GSR.8.1	192				