

Mathletics

Georgia Standards of Excellence

Activities (Courses) and Skill Quests



Grades K-2

August, 2025

Mathletics

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Kindergarten

Numerical Reasoning

K.NR.1 Demonstrate and explain the relationship between numbers and quantities up to 20; connect counting to cardinality (the last number counted represents the total quantity in a set).

K.NR.1.1 Count up to 20 objects in a variety of structured arrangements and up to 10 objects in a scattered arrangement.	
Course Topics	Activities
K.NR.1 - Number within 20	Count to 5
	How Many?
	Dot Display
	How Many Dots?
	Counting Up to 20

K.NR.1.2 When counting objects, explain that the last number counted represents the total quantity in a set (cardinality), regardless of the arrangement and order.	
Course Topics	Activities
K.NR.1 - Number within 20	Dot Display
	How Many Dots?

K.NR.1.3 Given a number from 1-20, identify the number that is one more or one less.	
Course Topics	Activities
K.NR.1 - Number within 20	More, Less or the Same to 20
	Before, After and Between to 20

K.NR.1.4 Identify pennies, nickels, and dimes and know their name and value	
Course Topics	Activities
K.NR.1 - Number within 20	Everyday Money

K.NR.2 Use count sequences within 100 to count forward and backward in sequence.

K.NR.2.1 Count forward to 100 by tens and ones and backward from 20 by ones.	
Course Topics	Activities
Teacher directed	Teacher directed

K.NR.2.2 Count forward beginning from any number within 100 and count backward from any number within 20.	
Course Topics	Activities
K.NR.2 - Counting within 100	Counting Back Within 20
	Counting Forward
	Going Up
	Order Numbers to 10
	Order Numbers to 20

K.NR.3 Use place value understanding to compose and decompose numbers from 11–19.

K.NR.3.1 Describe numbers from 11 to 19 by composing (putting together) and decomposing (breaking apart) the numbers into ten ones and some more ones.	
Course Topics	Activities
K.NR.3 - Place value	Making Teen Numbers

K.NR.4 Identify, write, represent, and compare numbers up to 20.

K.NR.4.1 Identify written numerals 0- 20 and represent a number of objects with a written numeral 0-20 (with 0 representing a count of no objects).	
Course Topics	Activities
K.NR.4 - Represent & Compare to 20	Concept of Zero

K.NR.4.2 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	
Course Topics	Activities
K.NR.4 - Represent & Compare to 20	More, Less or the Same to 10

K.NR.5 Explain the concepts of addition, subtraction, and equality and use these concepts to solve real-life problems within 10.

K.NR.5.1 Compose (put together) and decompose (break apart) numbers up to 10 using objects and drawings.	
Course Topics	Activities Title
K.NR.5 - Add & Subtract	Model Addition
	Adding to Make 5 and 10
	Make Numbers Count

K.NR.5.2 Represent addition and subtraction within 10 from a given authentic situation using a variety of representations and strategies.	
Course Topics	Activities Title
K.NR.5 - Add & Subtract	All about Ten

K.NR.5.3 Use a variety of strategies to solve addition and subtraction problems within 10.	
Course Topics	Activities Title
K.NR.5 - Add & Subtract	All about Ten
	Adding to Ten
	Subtracting from Ten

K.NR.5.4 Fluently add and subtract within 5 using a variety of strategies to solve practical, mathematical problems.	
Course Topics	Activities Title
K.NR.5 - Add & Subtract	Adding to 5
	Subtracting From 5

Patterning & Algebraic Reasoning

K.PAR.6 Explain, extend, and create repeating patterns with a repetition, not exceeding 4 and describe patterns involving the passage of time.

K.PAR.6.1 Create, extend, and describe repeating patterns with numbers and shapes, and explain the rationale for the pattern.	
Course Topics	Activities Title
K.PAR.6 - Patterns	Simple Patterns
	Complete the Pattern

K.PAR.6.2 Describe patterns involving the passage of time using words and phrases related to actual events.	
Course Topics	Activities Title
K.PAR.6 - Patterns	Days of the Week
	Tomorrow and Yesterday (Scaffolded)

Measurement & Data Reasoning

K.MDR.7 Observe, describe, and compare the physical and measurable attributes of objects and analyze graphical displays of data to answer relevant questions.

K.MDR.7.1 Directly compare, describe, and order common objects, using measurable attributes (length, height, width, or weight) and describe the difference.	
Course Topics	Activities
K.MDR.7 - Measure	Same and Different
	Everyday Length

K.MDR.7.2

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.	
Course Topics	Activities
K.MDR.7 - Measure	Compare Length
	Which Holds More?
	Everyday Mass

K.MDR.7.3	
Ask questions and answer them based on gathered information, observations, and appropriate graphical displays to solve problems relevant to everyday life.	
Course Topics	Activities
K.MDR.7 - Measure	Picture Graphs: More or Fewer (USA)
	Read Graphs

Geometric & Spatial Reasoning

K.GSR.8 Identify, describe, and compare basic shapes encountered in the environment, and form two-dimensional shapes and three-dimensional figures.

K.GSR.8.1	
Identify, sort, classify, analyze, and compare two- dimensional shapes and three-dimensional figures, in different sizes and orientations, using informal language to describe their similarities, differences, number of sides and vertices, and other attributes.	
Course Topics	Activities
K.GSR.8 - Shape & Space	Collect Simple Shapes
	Match the Solid 2

K.GSR.8.2	
Describe the relative location of an object using positional words.	
Course Topics	Activities
K.GSR.8 - Shape & Space	Where is it?

K.GSR.8.3	
Use basic shapes to represent specific shapes found in the environment by creating models and drawings.	
Course Topics	Activities
K.GSR.8 - Shape & Space	Match the Solid 2

K.GSR.8.4	
Use two or more basic shapes to form larger shapes.	
Course Topics	Activities
Teacher directed	
Topics	Skill Quests
Teacher directed	

Grade 1

Numerical Reasoning

1.NR.1 Extend the count sequence to 120. Read, write, and represent numerical values to 120 and compare numerical values to 100.

1.NR.1.1 Count within 120, forward and backward, starting at any number. In this range, read and write numerals and represent a number of objects with a written numeral.	
Course Topics	Activities
1.NR.1 - Number within 120	Counting Forward
	Counting Backward
	Going Down
	1 to 30
	The Number Line
Topics	Skill Quests
Count within 100	Counting within 100
	Reading & writing 2-digit numerals
	Representing 2-digit objects as numerals

1.NR.1.2 Explain that the two digits of a 2-digit number represent the amounts of tens and ones.	
Course Topics	Activities
1.NR.1 - Number within 120	Making Numbers Count
	Making Big Numbers Count
Topics	Skill Quests
Understand tens & ones	Understanding tens & ones

1.NR.1.3 Compare and order whole numbers up to 100 using concrete models, drawings, and the symbols $>$, $=$, and $<$.	
Course Topics	Activities
1.NR.1 - Number within 120	Compare Numbers to 50
	Compare Numbers to 100
	Greater or Less to 100
Topics	Skill Quests
Compare 2-digit numbers	Comparing 2-digit numbers

1.NR.2 Explain the relationship between addition and subtraction and apply the properties of operations to solve real-life addition and subtraction problems within 20.

1.NR.2.1 Use a variety of strategies to solve addition and subtraction problems within 20.	
Course Topics	Activities
1.NR.2 - Add & Subtract within 20	All about Twenty
Topics	Skill Quests

Add & subtract within 20, word problems	Creating addition & subtraction word problems
Relate counting to adding & subtracting	Relating counting to adding & subtracting
Add & subtract within 20	Adding & subtracting within 10 fluently
	Subtracting numbers within 20
	Adding & subtracting zero within 20
	Adding doubles to 20
	Adding by making 10
	Subtracting using doubles
	Adding & subtracting with fact families

1.NR.2.2 Use pictures, drawings, and equations to develop strategies for addition and subtraction within 20 by exploring strings of related problems.	
Course Topics	Activities
1.NR.2 - Add & Subtract within 20	Fact Families: Add and Subtract
Topics	Skill Quests
Add 3 single-digit numbers	Adding 3 single-digit numbers

1.NR.2.3 Recognize the inverse relationship between subtraction and addition within 20 and use this inverse relationship to solve authentic problems.	
Course Topics	Activities
1.NR.2 - Add & Subtract within 20	Adding In Any Order
	Fact Families: Add and Subtract
Topics	Skill Quests
Apply properties to add & subtract	Using the commutative property of addition

1.NR.2.4 Fluently add and subtract within 10 using a variety of strategies.	
Course Topics	Activities
1.NR.2 - Add & Subtract within 20	Adding to Make 5 and 10
Topics	Skill Quests
Teacher directed	

1.NR.2.5 Use the meaning of the equal sign to determine whether equations involving addition and subtraction are true or false.	
Course Topics	Activities
1.NR.2 - Add & Subtract within 20	Balancing Act
	Composing numbers to 10
	Composing Numbers to 20
	Composing additions to 20
	Repartition Two-digit Numbers

Topics	Skill Quests
Recognize equality & inequality	Recognizing equality & inequality

1.NR.2.6	
Determine the unknown whole number in an addition or subtraction equation relating to three whole numbers.	
Course Topics	Activities
1.NR.2 - Add & Subtract within 20	Add 3 Single Digit Numbers
Topics	Skill Quests
Find the unknown number in an equation	Finding the unknown: addition/subtraction equation

1.NR.2.7	
Apply properties of operations as strategies to solve addition and subtraction problem situations within 20.	
Course Topics	Activities
1.NR.2 - Add & Subtract within 20	Adding to 10 Word Problems
	Doubles and Near Doubles
	Missing Numbers
	How much Change?
Topics	Skill Quests
Teacher directed	

1.NR.5 Use concrete models, the base ten structure, and properties of operations to add and subtract within 100.

1.NR.5.1	
Use a variety of strategies to solve applicable, mathematical addition and subtraction problems with one- and two-digit whole numbers.	
Course Topics	Activities
1.NR.5 - Add & subtract within 100	1 More, 2 Less
	Model Subtraction
	Adding to 2-digit numbers
	Complements to 10, 20, 50
	Complements to 50 and 100
Topics	Skill Quests
Add within 100	Adding a 2-digit number & a 1-digit number, models
	Adding a 2-digit number & a 1-digit number
	Adding a 2-digit number & a multiple of 10

1.NR.5.2	
Given a two-digit number, mentally find 10 more or 10 less than the number, without having to count; explain the reasoning used.	
Course Topics	Activities
	Subtract Tens

1.NR.5 - Add & subtract within 100	10 More, 10 Less
Topics	Skill Quests
Find 10 more or 10 less	Finding 10 more or 10 less

1.NR.5.3 Add and subtract multiples of 10 within 100.	
Course Topics	Activities
1.NR.5 - Add & subtract within 100	Subtract Tens
	10 More, 10 Less
Topics	Skill Quests
Teacher directed	

Patterning & Algebraic Reasoning

1.PAR.3 Identify, describe, extend, and create repeating patterns, growing patterns, and shrinking patterns found in real-life situations.

1.PAR.3.1 Investigate, create, and make predictions about repeating patterns with a core of up to 3 elements resulting from repeating an operation, as a series of shapes, or a number string.	
Course Topics	Activities
1.PAR.3 - Patterns & Algebra	Pattern Error
	Missing it!
Topics	Skill Quests
Teacher directed	

1.PAR.3.2 Identify, describe, and create growing, shrinking, and repeating patterns based on the repeated addition or subtraction of 1s, 2s, 5s, and 10s	
Course Topics	Activities
1.PAR.3 - Patterns & Algebra	Number Line Order (50 +)
Topics	Skill Quests
Teacher directed	

Geometric & Spatial Reasoning

1.GSR.4 Compose shapes, analyze the attributes of shapes, and relate their parts to the whole.

1.GSR.4.1 Identify common two-dimensional shapes and three-dimensional figures, sort and classify them by their attributes and build and draw shapes that possess defining attributes.	
Course Topics	Activities

1.GSR.4 -Shape & Space	Collect Simple Shapes
	Match the Solid 2
Topics	Skill Quests
Sort shapes based on attributes	Sorting shapes based on attributes

1.GSR.4.2	
Compose two-dimensional shapes (rectangles, squares, triangles, half-circles, and quarter-circles) and three-dimensional figures (cubes, rectangular prisms, cones, and cylinders) to create a shape formed of two or more common shapes and compose new shapes from the composite shape.	
Course Topics	Activities
Teacher directed	
Topics	Skill Quests
Composite shapes: 2-D & 3-D	Composite shapes: 2-D & 3-D

1.GSR.4.3	
Partition circles and rectangles into two and four equal shares	
Course Topics	Activities
1.GSR.4 -Shape & Space	Halves
	Is it Half?
	Halves and Fourths
Topics	Skill Quests
Teacher directed	

Measurement & Data Reasoning

1.MDR.6 Use appropriate tools to measure, order, and compare intervals of length and time, as well as denominations of money to solve real-life, mathematical problems and analyze graphical displays of data to answer relevant questions

1.MDR.6.1	
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.	
Course Topics	Activities
1.MDR.6 - Measure	Compare Length
	Compare Length 1
	Measuring Length with Blocks
Topics	Skill Quests
Order & compare objects by length	Comparing & ordering lengths

1.MDR.6.2	
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.	
Course Topics	Activities
1.MDR.6 - Measure	Hour Times
	Half Hour Times
Topics	Skill Quests
Teacher directed	

1.MDR.6.3	
Identify the value of quarters and compare the values of pennies, nickels, dimes, and quarters.	
Course Topics	Activities
1.MDR.6 - Measure	Everyday Money
Topics	Skill Quests
Teacher directed	

1.MDR.6.4	
Ask questions and answer them based on gathered information, observations, and appropriate graphical displays to compare and order whole numbers.	
Course Topics	Activities
1.MDR.6 - Measure	Picture Graphs: More or Fewer (USA)
	Picture Graphs: Who has the Goods?
	Comparing Volume
	Everyday Mass
Topics	Skill Quests
Organize, represent & interpret data	Introducing & reading data in tables
	Representing data in graphs
	Interpreting tally charts & picture graphs

Grade 2

Numerical Reasoning

2.NR.1 Using the place value structure, explore the count sequences to represent, read, write, and compare numerical values to 1000 and describe basic place-value relationships and structures.

2.NR.1.1 Explain the value of a three-digit number using hundreds, tens, and ones in a variety of ways.	
Course Topics	Activities
2.NR.1 - Number & Place Value	Place Value 1
	Place Value 2
	Decompose Numbers
	Understanding Place Value 1
Topics	Skill Quests
Understand hundreds, tens & ones	Understanding hundreds, tens & ones

2.NR.1.2 Count forward and backward by ones from any number within 1000. Count forward by fives from multiples of 5 within 1000. Count forward and backward by 10s and 100s from any number within 1000. Count forward by 25s from 0.	
Course Topics	Activities
2.NR.1 - Number & Place Value	Skip Counting with Coins
Topics	Skill Quests
Skip-count within 1000	Skip-counting by 10s
	Skip-counting by 5s
	Skip-counting by 100s
	Counting within 1000

2.NR.1.3 Represent, compare, and order whole numbers to 1000 with an emphasis on place value and equality. Use $>$, $=$, and $<$ symbols to record the results of comparisons.	
Course Topics	Activities
2.NR.1 - Number & Place Value	Smallest and largest numbers
	Which is Smaller?
	Which is Bigger?
	Ascending Order
	Descending Order
Topics	Skill Quests
Read & write numbers to 1000	Reading & writing numbers to 1000
Compare 3-digit numbers	Comparing 3-digit numbers

2.NR.2 Apply multiple part-whole strategies, properties of operations and place value understanding to solve real-life, mathematical problems involving addition and subtraction within 1,000.

2.NR.2.1 Fluently add and subtract within 20 using a variety of mental, part-whole strategies.	
Course Topics	Activities
2.NR.2 - Add & Subtract	Composing Numbers to 20
	All about Twenty
	Add 3 Numbers Using Bonds to 10
	Doubles and Halves to 20
Topics	Skill Quests
Add & subtract within 20	Fluently adding & subtracting within 20
	Adding & subtracting two 1-digit numbers

2.NR.2.2 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.	
Course Topics	Activities
2.NR.2 - Add & Subtract	10 More, 10 Less
	Subtract Tens
Topics	Skill Quests
Add & subtract 10 or 100 mentally	Adding & subtracting 10 or 100 mentally

2.NR.2.3 Solve problems involving the addition and subtraction of two-digit numbers using part-whole strategies.	
Course Topics	Activities
2.NR.2 - Add & Subtract	Add and Subtract Problems
	Problems: Add and Subtract 1
	Adding to 2-digit numbers
	Add 3 Numbers: Bonds to Multiples of 10
	Columns that Add
	Add Three 1-Digit Numbers
	Subtract Numbers
Topics	Skill Quests
Add & subtract within 100, word problems	Creating addition & subtraction word problems
Add 2-digit numbers, strategies	Adding 2-digit numbers, strategies

2.NR.2.4 Fluently add and subtract within 100 using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction.	
Course Topics	Activities
2.NR.2 - Add & Subtract	Decompose numbers to subtract
Topics	Skill Quests
Add & subtract within 100	Using strategies to add & subtract within 100
	Adding & subtracting using a 100 chart

2.NR.3 Work with equal groups to gain foundations for multiplication through real-life, mathematical problems.

2.NR.3.1	
Determine whether a group (up to 20) has an odd or even number of objects. Write an equation to express an even number as a sum of two equal addends.	
Course Topics	Activities
2.NR.3 - Multiplication & Division	Groups of Two
	Odd or Even
Topics	Skill Quests
Odd & even numbers	Odd & even numbers up to 20

2.NR.3.2	
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.	
Course Topics	Activities
2.NR.3 - Multiplication & Division	Making Equal Groups
	Groups
	Multiplication Arrays
Topics	Skill Quests
Connect addition & arrays	Connecting addition & arrays

Patterning & Algebraic Reasoning

2.PAR.4 Identify, describe, extend, and create repeating patterns, growing patterns, and shrinking patterns.

2.PAR.4.1	
Identify, describe, and create a numerical pattern resulting from repeating an operation such as addition and subtraction.	
Course Topics	Activities
2.PAR.4 - Patterns & Algebra	Count by 2s, 5s and 10s
Topics	Skill Quests
Teacher directed	

2.PAR.4.2	
Identify, describe, and create growing patterns and shrinking patterns involving addition and subtraction up to 20.	
Course Topics	Activities
2.PAR.4 - Patterns & Algebra	Count Forward Patterns
	Count Backward Patterns
Topics	Skill Quests
Teacher directed	

Measurement & Data Reasoning

2.MDR.5 Estimate and measure the lengths of objects and distance to solve problems found in real-life using standard units of measurement, including inches, feet, and yards and analyze graphical displays of data to answer relevant questions.

2.MDR.5.1 Construct simple measuring instruments using unit models. Compare unit models to rulers.	
Course Topics	Activities
2.MDR.5 - Measurement	How Long Is That (Customary)?
Topics	Skill Quests
Teacher directed	

2.MDR.5.2 Estimate and measure the length of an object or distance to the nearest whole unit using appropriate units and standard measuring tools.	
Course Topics	Activities
2.MDR.5 - Measurement	How Long Is That (Customary)?
Topics	Skill Quests
Teacher directed	

2.MDR.5.3 Measure to determine how much longer one object is than another and express the length difference in terms of a standard-length unit.	
Course Topics	Activities
2.MDR.5 - Measurement	Comparing Length
	Ordering Lengths (cm)
	Ordering Mass (g)
Topics	Skill Quests
Teacher directed	

2.MDR.5.4 Ask questions and answer them based on gathered information, observations, and appropriate graphical displays to solve problems relevant to everyday life.	
Course Topics	Activities
Teacher directed	
Topics	Skill Quests
Introduction to line plots	Reading line plots
Picture graphs & bar graphs	Picture graphs
	Bar graphs

2.MDR.5.5 Represent whole-number sums and differences within a standard unit of measurement on a number line diagram.	
Course Topics	Activities
Teacher directed	
Topics	Skill Quests
Teacher directed	

2.MDR.6 Solve real-life problems involving time and money.

2.MDR.6.1	
Tell and write time from analog and digital clocks to the nearest five minutes, and estimate and measure elapsed time using a timeline, to the hour or half hour on the hour or half hour.	
Course Topics	Activities
2.MDR.6 - Time & Money	Five Minute Times
Topics	Skill Quests
Tell time	Telling time to the quarter hour, analog & digital
	Telling time to 5 minutes, analog & digital

2.MDR.6.2	
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	
Course Topics	Activities
2.MDR.6 - Time & Money	Teacher directed
Topics	Skill Quests
Money	Recognizing bills & coins
	Solving money word problems

Geometric & Spatial Reasoning

2.GSR.7 Draw and partition shapes and other objects with specific attributes, and conduct observations of everyday items and structures to identify how shapes exist in the world.

2.GSR.7.1	
Describe, compare and sort 2-D shapes including polygons, triangles, quadrilaterals, pentagons, hexagons, and 3-D shapes including rectangular prisms and cones, given a set of attributes.	
Course Topics	Activities
2.GSR.7 - Shape & Space	Match the Solid 1
	Collect the Shapes
	Select the Objects
Topics	Skill Quests
Recognize & identify shapes	Identifying & sorting shapes
	Identifying quadrilaterals
	Identifying pentagons
	Identifying hexagons
	Identifying cubes

2.GSR.7.2	
Identify at least one line of symmetry in everyday objects to describe each object as a whole.	
Course Topics	Activities
2.GSR.7 - Shape & Space	Symmetry
Topics	Skill Quests
Teacher directed	

2.GSR.7.3	
Partition circles and rectangles into two, three, or four equal shares. Identify and describe equal-sized parts of the whole using fractional names (“halves,” “thirds,” “fourths”, “half of,” “third of,” “quarter of,” etc.).	
Course Topics	Activities
2.GSR.7 - Shape & Space	Halves and Fourths
	Shade fractions
Topics	Skill Quests
Teacher directed	

2.GSR.7.4	
Recognize that equal shares of identical wholes may be different shapes within the same whole.	
Course Topics	Activities
2.GSR.7 - Shape & Space	Halves and Fourths
	Shade fractions
Topics	Skill Quests
Teacher directed	



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