

Mathletics

Missouri Learning Standards

Activities (Courses) and Skill Quests



Grades K-2

September, 2025

Mathletics

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Kindergarten

K.NS Number Sense

K.NS.A Know the number names and the count sequence.

K.NS.A.1 Count to 100 by ones and tens	
Course Topics	Activities
NS—Counting (up to 100)	Count by Tens
	Going Up
	Going Down
	Counting by Tens

K.NS.A.2 Count forward beginning from a given number between 1 and 20.	
Course Topics	Activities
NS—Counting (up to 100)	Count to 5
	Order Numbers to 10
	Order Numbers to 20

K.NS.A.3 Count backward from a given number between 10 and 1.	
Course Topics	Activities
Teacher directed	

K.NS.A.4 Read and write numerals and represent a number of objects from 0 to 20.	
Course Topics	Activities
NS—Counting (up to 100)	Matching Numbers to 10
	Matching Numbers to 20

K.NS.B Understand the relationship between numbers and quantities; connect counting to cardinality.

K.NS.B.5 Say the number names when counting objects, in the standard order, pairing each object with one and only one number name and each number name with one and only one object.	
Course Topics	Activities
NS—Quantities	How Many?

K.NS.B.6 Demonstrate that the last number name said tells the number of objects counted and the number of objects is the same regardless of their arrangement or the order in which they were counted.	
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Course Topics	Activities
NS—Quantities	How Many Dots?

K.NS.B.7 Demonstrate that each successive number name refers to a quantity that is one larger than the previous number.	
Course Topics	Activities
NS—Quantities	Before, After and Between to 20

K.NS.B.8 Recognize, without counting, the quantity of groups up to 5 objects arranged in common patterns.	
Course Topics	Activities
Teacher directed	

K.NS.B.9 Demonstrate that a number can be used to represent “how many” are in a set.	
Course Topics	Activities
NS—Quantities	Making Big Numbers Count

K.NS.C Compare numbers.

K.NS.C.10 Compare two or more sets of objects and identify which set is equal to, more than or less than the other.	
Course Topics	Activities
NS—Quantities	More, Less or the Same to 20

K.NS.C.11 Compare two numerals, between 1 and 10, and determine which is more than or less than the other.	
Course Topics	Activities
NS—Quantities	More, Less or the Same to 10

K.NBT Number Sense and Operations in Base Ten

K.NBT.A Work with numbers 11 – 19 to gain foundations for place value.

K.NBT.A.1 Compose and decompose numbers from 11 to 19 into sets of tens with additional ones.	
Course Topics	Activities
NBT—Decompose number to 20	Making Teen Numbers
	Make Numbers Count

K.RA Relationships and Algebraic Thinking

K.RA.A Work with numbers 11 – 19 to gain foundations for place value.

K.RA.A.1	
Represent addition and subtraction within 10.	
Course Topics	Activities
RA—Addition & subtraction within 10	Adding to Ten
	All about Ten
	Subtracting from Ten

K.RA.A.2	
Demonstrate fluency for addition and subtraction within 5.	
Course Topics	Activities
RA—Addition & subtraction within 10	Adding to 5
	Subtracting From 5

K.RA.A.3	
Decompose numbers less than or equal to 10 in more than one way.	
Course Topics	Activities
RA—Addition & subtraction within 10	Doubles and Halves to 10

K.RA.A.4	
Make 10 for any number from 1 to 9.	
Course Topics	Activities
RA—Addition & subtraction within 10	Adding to Make 5 and 10
	Composing Numbers to 10

K.GM Geometry and Measurement

K.GM.A Reason with shapes and their attributes.

K.GM.A.1	
Describe several measurable attributes of objects.	
Course Topics	Activities
GM—Measurable attributes	Compare Length
	Everyday Length
	Everyday Mass
	Balancing Act
	How Full?

K.GM.A.2	
Compare the measurable attributes of two objects.	
Course Topics	Activities
GM—Measurable attributes	Which Holds More?

	Sort It
	Same and Different

K.GM.B Work with time and money

K.GM.B.3	
Demonstrate an understanding of concepts of time and devices that measure time.	
Course Topics	Activities
GM—Time & money	Hour Times
	Half Hour Times
	Tell Time to the Half Hour

K.GM.B.4	
Name the days of the week.	
Course Topics	Activities
GM—Time & money	Days of the Week
	Days: After and Before

K.GM.B.5	
Identify pennies, nickels, dimes and quarters.	
Course Topics	Activities
GM—Time & money	Everyday Money

K.GM.C Work with time and money

K.GM.C.6	
Identify shapes and describe objects in the environment using names of shapes, recognizing the name stays the same regardless of orientation or size.	
Course Topics	Activities
GM—Analyze shapes	Collect the Objects 1
	Match the Object

K.GM.C.7	
Describe the relative positions of objects in space.	
Course Topics	Activities
GM—Analyze shapes	Where is it?

K.GM.C.8	
Identify and describe the attribute of shapes, and use the attributes to sort a collection of shapes.	
Course Topics	Activities
GM—Analyze shapes	Collect the Shapes
	Collect Simple Shapes

K.GM.C.9	
Identify and describe the attribute of shapes, and use the attributes to sort a collection of shapes.	
Course Topics	Activities
Teacher directed	

K.GM.C.10	
Compose simple shapes to form larger shapes using manipulatives.	
Course Topics	Activities
Teacher directed	

K.DS Data and Statistics

K.DS.A Classify objects and count the number of objects in each category.

K.DS.A.1	
Classify objects into given categories; count the number of objects in each category.	
Course Topics	Activities
DS—Analyze data	Analyzing Data

K.DS.A.2	
Compare category counts using appropriate language.	
Course Topics	Activities
DS—Analyze data	Picture Graphs: More or Less

Grade 1

1.RA Relationships and Algebraic Thinking

1.RA.A Represent and solve problems involving addition and subtraction

1.RA.A.1	
Use addition and subtraction within 20 to solve problems.	
Course Topics	Activities
RA—Problem solving (addition & subtraction)	Addition Facts
	Subtracting from 20
	Related Facts 1
Topics	Skill Quests
Add & subtract within 20, word problems	Creating addition & subtraction word problems

1.RA.A.2	
Solve problems that call for addition of three whole numbers whose sum is within 20.	
Course Topics	Activities
RA—Problem solving (addition & subtraction)	Columns that Add
	Add 3 Numbers Using Bonds to 10
Topics	Skill Quests
Add 3 single-digit numbers	Adding 3 single-digit numbers

1.RA.A.3	
Develop the meaning of the equal sign and determine if equations involving addition and subtraction are true or false.	
Course Topics	Activities
Teacher directed	
Topics	Skill Quests
Recognize equality & inequality	Recognizing equality & inequality

1.RA.A.4	
Determine the unknown whole number in an addition or subtraction equation relating three whole numbers.	
Course Topics	Activities
RA—Problem solving (addition & subtraction)	Missing Numbers
Topics	Skill Quests
Find the unknown number in an equation	Finding the unknown: addition/subtraction equation

1.RA.B Understand and apply properties of operations and the relationship between additional and subtraction.

1.RA.B.5 Use properties as strategies to add and subtract.	
Course Topics	Activities
RA—Problem solving (addition & subtraction)	Fact Families: Add and Subtract
Topics	Skill Quests
Apply properties to add & subtract	Using the commutative property of addition

1.RA.B.6 Demonstrate that subtraction can be solved as an unknown-addend problem.	
Course Topics	Activities
Teacher directed	
Topics	Skill Quests
Teacher directed	

1.RA.C Add and subtract within 20

1.RA.C.7 Add and subtract within 20.	
Course Topics	Activities
RA—Problem solving (addition & subtraction)	Addition
	Subtraction Facts to 18
	Additive Addition
Topics	Skill Quests
Add & subtract within 20	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.RA.C.8 Demonstrate fluency with addition and subtraction within 10.	
Course Topics	Activities
RA—Problem solving (addition & subtraction)	Adding to Make 5 and 10
Topics	Skill Quests
Add and subtract within 10 fluently	Adding & subtracting within 10 fluently

1.NS Number Sense

1.NS.A Understand and use numbers up to 120.

1.NS.A.1	
Count to 120, starting at any number less than 120.	
Course Topics	Activities
NS—Counting	Counting on a 100 grid
	Before, After & Between to 100
	Going Up
	Going Down
Topics	Skill Quests
Count within 100	Counting within 100

1.NS.A.2	
Read and write numerals and represent a number of objects with a written numeral.	
Course Topics	Activities
NS—Counting	Matching Numbers to 10
	Matching Numbers to 20
	Make Big Numbers Count
Topics	Skill Quests
Read & write 2-digit numerals	Reading & writing 2-digit numerals
	Representing 2-digit objects as numerals

1.NS.A.3	
Count backward from a given number between 20 and 1.	
Course Topics	Activities
Teacher directed	
Topics	Skill Quests
Count forward & backward from 20	Counting forward & backward from 20

1.NS.A.4	
Count by 5s to 100 starting at any multiple of 5.	
Course Topics	Activities
NS—Counting	Count by Tens
Topics	Skill Quests
Count by 5s	Counting by 5s

1.NBT Number Sense and Operations in Base Ten

1.NBT.A Understand place value of two-digit numbers.

1.NBT.A.1	
Understand that 10 can be thought of as a bundle of 10 ones – called a "ten".	
Course Topics	Activities
NS—Place value (two-digits)	Making Teen Numbers
	Making Numbers Count
Topics	Skill Quests
Count in groups of ten	Counting in groups of ten

1.NBT.A.2	
Understand two-digit numbers are composed of ten (s) and ones (s).	
Course Topics	Activities
NS—Place value (two-digits)	Place Value 1
Topics	Skill Quests
Understand tens & ones	Understanding tens & ones

1.NBT.A.3	
Compare two two-digit numbers using the symbols $>$, $=$ or $<$.	
Course Topics	Activities
NS—Place value (two-digits)	Compare Numbers to 20
	Compare Numbers to 50
Topics	Skill Quests
Compare 2-digit numbers	Comparing 2-digit numbers

1.NBT.A.4	
Count by 10s to 120 starting at any number.	
Course Topics	Activities
NS—Place value (two-digits)	Groups of Ten
Topics	Skill Quests
Count by 10s	Counting by 10s

1.NBT.B Use place value understanding to add and subtract.

1.NBT.B.5	
Add within 100.	
Course Topics	Activities
NS—Place value (addition & subtraction)	Add Two 2-Digit Numbers
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.NBT.B.6 Calculate 10 more or 10 less than a given number mentally without having to count.	
Course Topics	Activities
NS—Place value (addition & subtraction)	Counting by Tens
Topics	Skill Quests
Find 10 more or 10 less	Finding 10 more or 10 less

1.NBT.B.7 Add or subtract a multiple of 10 from another two-digit number, and justify the solution.	
Course Topics	Activities
Teacher directed	
Topics	Skill Quests
Teacher directed	

1.GM Geometry and Measurement

1.GM.B Measure lengths in non-standard units

1.GM.B.5 Order three or more objects by length.	
Course Topics	Activities
GM—Length, time, & money	Compare Length 1
Topics	Skill Quests
Order & compare objects by length	Comparing & ordering lengths

1.GM.B.6 Compare the lengths of two objects indirectly by using a third object.	
Course Topics	Activities
GM—Length, time, & money	Everyday Length
	Comparing Length
Topics	Skill Quests
Express the length of an object	Expressing the length of an object

1.GM.B.7 Demonstrate the ability to measure length or distance using objects.	
Course Topics	Activities
GM—Length, time, & money	Measuring Length with Blocks
Topics	Skill Quests
Measure lengths: uniform informal units	Measuring lengths: uniform informal units

1.GM.C Work with time and money

1.GM.C.8	
Tell and write time in hours and half-hours using analog and digital clocks.	
Course Topics	Activities
GM—Length, time, & money	Hour Times
	Half Hour Times
	Tell Time to the Half Hour
Topics	Skill Quests
Tell time	Telling time with analog clocks
	Telling time with digital clocks

1.GM.C.9	
Know the value of a penny, nickel, dime and quarter.	
Course Topics	Activities
GM—Length, time, & money	Everyday Money
Topics	Skill Quests
Teacher directed	

1.GM.A Reason with shapes and their attributes.

1.GM.A.1	
Distinguish between defining attributes versus non-defining attributes; build and draw shapes that possess defining attributes.	
Course Topics	Activities
GM—Shapes	How many Edges?
	Collect the Objects 2
Topics	Skill Quests
Sort shapes based on attributes	Sorting shapes based on attributes

1.GM.A.2	
Compose and decompose two- and three-dimensional shapes to build an understanding of part-whole relationships and the properties of the original and composite shapes.	
Course Topics	Activities
Teacher directed	
Topics	Skill Quests
Composite shapes: 2-D & 3-D	Composite shapes: 2-D & 3-D

1.GM.A.3	
Recognize two- and three-dimensional shapes from different perspectives and orientations.	
Course Topics	Activities
GM—Shapes	Collect the Objects 2
	Match the Solid 2

Topics	Skill Quests
Teacher directed	

1.GM.A.4	
Partition circles and rectangles into two or four equal shares, and describe the shares and the wholes verbally.	
Course Topics	Activities
GM—Shapes	Halves
	Halves and Fourths
Topics	Skill Quests
Teacher directed	

1.DS Data and Statistics

1.DS.A Represent and interpret data

1.DS.A.1	
Collect, organize and represent data with up to three categories.	
Course Topics	Activities
DS—Analyze data	Pictographs
	Analyzing Data
Topics	Skill Quests
Organize, represent & interpret data	Introducing & reading data in tables
	Representing data in graphs
	Interpreting tally charts & picture graphs

1.DS.A.2	
Draw conclusions from object graphs, picture graphs, T-charts and tallies.	
Course Topics	Activities
DS—Analyze data	Comparing Groups of Objects
Topics	Skill Quests
Draw conclusions from graphs & tallies	Drawing conclusions from graphs & tallies

Grade 2

2.NBT Number Sense and Operations in Base Ten

2.NBT.C Represent and solve problems involving addition and subtraction.

2.NBT.C.11	
Write and solve problems involving addition and subtraction within 100.	
Course Topics	Activities
Teacher directed	
Topics	Skill Quests
Add & subtract within 100, word problems	Creating addition & subtraction word problems

2.NBT.A Understand place value of three-digit numbers.

2.NBT.A.1	
Understand three-digit numbers are composed of hundreds, tens and ones.	
Course Topics	Activities
NBT—Place value (three-digits)	Model Numbers
Topics	Skill Quests
Understand hundreds, tens & ones	Understanding hundreds, tens & ones

2.NBT.A.2	
Understand that 100 can be thought of as 10 tens – called a "hundred".	
Course Topics	Activities
NBT—Place value (three-digits)	Place Value 2
Topics	Skill Quests
Teacher directed	

2.NBT.A.3	
Count within 1000 by 1s, 10s and 100s starting with any number.	
Course Topics	Activities
Teacher directed	
Topics	Skill Quests
Skip-count within 1000	Skip-counting by 10s
	Skip-counting by 5s
	Skip-counting by 100s
	Counting within 1000

2.NBT.A.4	
Read and write numbers to 1000 using number names, base-ten numerals and expanded form.	
Course Topics	Activities

NBT—Place value (three-digits)	Understanding Place Value 1
Topics	Skill Quests
Read & write numbers to 1000	Reading & writing numbers to 1000

2.NBT.A.5	
Compare two three-digit numbers using the symbols $>$, $=$ or $<$.	
Course Topics	Activities
NBT—Place value (three-digits)	Which is Bigger?
	Which is Smaller?
Topics	Skill Quests
Compare 3-digit numbers	Comparing 3-digit numbers

2.NBT.B Use place value understanding and properties of operations to add and subtract.

2.NBT.B.6	
Demonstrate fluency with addition and subtraction within 100.	
Course Topics	Activities
NBT—Addition & subtraction	Complements to 10, 20, 50
	Complements to 50 and 100
	2-Digit Differences
	2-Digit Differences: Regroup
	Add Two 2-Digit Numbers: Regroup
Topics	Skill Quests
Add & subtract within 100	Using strategies to add & subtract within 100
	Adding & subtracting using a 100 chart

2.NBT.B.7	
Add up to four two-digit numbers.	
Course Topics	Activities
Teacher directed	
Topics	Skill Quests
Add 2-digit numbers, strategies	Adding 2-digit numbers, strategies

2.NBT.B.8	
Add or subtract within 1000, and justify the solution.	
Course Topics	Activities
NBT—Addition & subtraction	Add Three 3-Digit Numbers: Regroup
Topics	Skill Quests
Add & subtract within 1000	Adding within 1000
	Subtracting within 1000

2.NBT.B.9	
Use the relationship between addition and subtraction to solve problems.	

Course Topics	Activities
NBT—Addition & subtraction	Decompose Numbers to Subtract
Topics	Skill Quests
Teacher directed	

2.NBT.B.10	
Add or subtract mentally 10 or 100 to or from a given number within 1000.	
Course Topics	Activities
NBT—Addition & subtraction	Subtract Tens
Topics	Skill Quests
Add & subtract 10 or 100 mentally	Adding & subtracting 10 or 100 mentally

2.RA Relationships and Algebraic Thinking

2.RA.A Add and subtract within 20

2.RA.A.1	
Demonstrate fluency with addition and subtraction within 20.	
Course Topics	Activities
RA—Addition & subtraction (up to 20)	Fact Families: Add and Subtract
	Addition
	Subtracting from 20
	Addition Facts
	Subtraction Facts to 18
	Additive Addition
Topics	Skill Quests
Add & subtract within 20	Fluently adding & subtracting within 20
	Adding & subtracting two 1-digit numbers

2.RA.B Develop foundations for multiplication and division.

2.RA.B.2	
Determine if a set of objects has an odd or even number of members.	
Course Topics	Activities
RA—Multiplication & division foundations	Odd or Even
	Count by Twos
	Counting by Twos
	Grouping in Twos
Topics	Skill Quests
Odd & even numbers	Odd & even numbers up to 20
	Skip counting by 2s

2.RA.B.3	
Find the total number of objects arranged in a rectangular array with up to 5 rows and 5 columns, and write an equation to represent the total as a sum of equal addends.	
Course Topics	Activities
RA—Multiplication & division foundations	Grouping in Threes
	Grouping in Fours
	Grouping in Fives
Topics	Skill Quests
Connect addition & arrays	Connecting addition & arrays

2.GM Geometry and Measurement

2.GM.B Measure and estimate lengths in standard units.

2.GM.B.4	
Measure the length of an object by selecting and using appropriate tools.	
Course Topics	Activities
GM—Length	Measuring Length
	Measure to the Nearest Half Inch
	Inches, Feet, Yards
Topics	Skill Quests
Select units of measure: m, cm	Selecting units of measure: m, cm

2.GM.B.5	
Analyze the results of measuring the same object with different units.	
Course Topics	Activities
Teacher directed	
Topics	Skill Quests
Teacher directed	

2.GM.B.6	
Estimate lengths using units of inches, feet, yards, centimeters and meters.	
Course Topics	Activities
GM—Length	How Long Is That (Customary)?
Topics	Skill Quests
Teacher directed	

2.GM.B.7	
Measure to determine how much longer one object is than another.	
Course Topics	Activities
GM—Length	Compare Length
Topics	Skill Quests
Teacher directed	

2.GM.C Relate addition and subtraction to length.

2.GM.C.8	
Use addition and subtraction within 100 to solve problems involving lengths that are given in the same units.	
Course Topics	Activities
Teacher directed	
Topics	Skill Quests
Addition & subtraction length problems	Solving addition & subtraction length problems

2.GM.C.9	
Represent whole numbers as lengths on a number line, and represent whole-number sums and differences within 100 on a number line.	
Course Topics	Activities
GM—Length	Number Line Order
	The Number Line
Topics	Skill Quests
Teacher directed	

2.GM.D Work with time and money.

2.GM.D.10	
Tell and write time from analog and digital clocks to the nearest five minutes, using a.m. and p.m.	
Course Topics	Activities
GM—Time & money	Five Minute Times
Topics	Skill Quests
Tell time	Telling time to the quarter hour, analog & digital

2.GM.D.11	
Describe a time shown on a digital clock as representing hours and minutes, and relate a time shown on a digital clock to the same time on an analog clock.	
Course Topics	Activities
GM—Time & money	What is the Time?
Topics	Skill Quests
Tell time to minutes, analog and digital	Telling time to 5 minutes, analog & digital
	Using am & pm notation

2.GM.D.12	
Find the value of combinations of dollar bills, quarters, dimes, nickels and pennies, using \$ and ¢ appropriately.	
Course Topics	Activities
GM—Time & money	Money - Totaling (USD)
Topics	Skill Quests
Money	Recognizing bills & coins

2.GM.D.13	
Find combinations of coins that equal a given amount.	
Course Topics	Activities
GM—Time & money	Who's got the Money?
Topics	Skill Quests
Solve money word problems	Solving money word problems

2.GM.A Reason with shapes and their attributes.

2.GM.A.1	
Recognize and draw shapes having specified attributes, such as a given number of angles or sides. a. Identify triangles, quadrilaterals, pentagons, hexagons, circles and cubes. b. Identify the faces of three-dimensional objects.	
Course Topics	Activities
GM—Shapes	Collect the Polygons
	Count Sides and Corners
Topics	Skill Quests
Recognize & identify shapes	Identifying & sorting shapes
	Identifying quadrilaterals
	Identifying pentagons
	Identifying hexagons
	Identifying cubes
Introduce faces of 3-dimensional shapes	Introducing faces of 3-dimensional shapes

2.GM.A.2	
Partition a rectangle into rows and columns of same-size squares and count to find the total number of squares.	
Course Topics	Activities
GM—Shapes	Equal Areas
Topics	Skill Quests
Teacher directed	

2.GM.A.3	
Partition circles and rectangles into two, three or four equal shares, and describe the shares and the whole. a. Demonstrate that equal shares of identical wholes need not have the same shape	
Course Topics	Activities
GM—Shapes	Shade Fractions
	Halves and Fourths
Topics	Skill Quests
Picture graphs & bar graphs	Picture graphs
	Bar graphs

2.DS Data and Statistics

2.DS.A Represent and interpret data

2.DS.A.1	
Create a line plot to represent a set of numeric data, given a horizontal scale marked in whole numbers.	
Course Topics	Activities
DS—Represent & interpret data	Line Plots
Topics	Skill Quests
Introduction to line plots	Reading line plots

2.DS.A.2	
Generate measurement data to the nearest whole unit, and display the data in a line plot.	
Course Topics	Activities
Teacher directed	
Topics	Skill Quests
Teacher directed	

2.DS.A.3	
Draw a picture graph or a bar graph to represent a data set with up to four categories.	
Course Topics	Activities
Teacher directed	
Topics	Skill Quests
Picture graphs & bar graphs	Picture graphs
	Bar graphs

2.DS.A.4	
Solve problems using information represented in line plots, picture graphs and bar graphs.	
Course Topics	Activities
DS—Represent & interpret data	Making Picture Graphs: With Scale
	Picture Graphs: single-unit scale
	Bar Graphs 1
Topics	Skill Quests
Teacher directed	

2.DS.A.5	
Draw conclusions from line plots, picture graphs and bar graphs.	
Course Topics	Activities
DS—Represent & interpret data	Bar Graphs 2
Topics	Skill Quests
Teacher directed	



For more information about Mathletics,
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