

Mathletics

Michigan Academic Standards

Activities (Courses), Skill Quests
and eBooks



Grades K-2

August, 2025

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Kindergarten

K. CC Counting & Cardinality

Know number names and the count sequence.

K.CC.1 Count to 100 by ones and by tens.	
 Activities	
Counting & Cardinality - up to 20	Before, After and Between to 20
Counting & Cardinality	1 to 30
	Count by Tens

K.CC.2 Count forward beginning from a given number within the known sequence (instead of having to begin at 1).	
 Activities	
Counting & Cardinality - up to 20	Order Numbers to 10
	Order Numbers to 20
	Counting Up to 20
Counting & Cardinality	Counting Forward
	Going Up

K.CC.3 Write numbers from 0 to 20. Represent a number of objects with a written numeral 0-20 (with 0 representing a count of no objects).	
 Activities	
Counting & Cardinality - up to 20	Matching Numbers to 10
	Matching Numbers to 20
Counting & Cardinality	Reading Numbers to 30
 Ebooks	
Kindergarten, Series A: Numbers and Patterns	Numbers to 10
	Numbers to 20

Count to tell the number of objects.

K.CC.4 Understand the relationship between numbers and quantities; connect counting to cardinality. a. When counting objects, say the number names in the standard order, pairing each object with one and only one number name and each number name with one and only one object. b. Understand that the last number name said tells the number of objects counted. The number of objects is the same regardless of their arrangement or the order in which they were counted. c. Understand that each successive number name refers to a quantity that is one larger.	
 Activities	
Counting & Cardinality - up to 20	How Many?
	Dot Display

	How Many Dots?
	Count to 5
	Concept of Zero
 Ebooks	
Kindergarten, Series A: Numbers and Patterns	Numbers to 10
	Numbers to 20
Kindergarten: Rich Task	Walking Back and Forth

K.CC.5	
Count to answer “how many?” questions about as many as 20 things arranged in a line, a rectangular array, or a circle, or as many as 10 things in a scattered configuration; given a number from 1-20, count out that many objects.	
 Activities	
Counting & Cardinality - up to 20	How Many?
	Dot Display
	How Many Dots?
	Count to 5
 Ebooks	
Kindergarten, Series A: Numbers and Patterns	Numbers to 10
	Numbers to 20

Compare numbers

K.CC.6	
Identify whether the number of objects in one group is greater than, less than, or equal to the number of objects in another group, e.g., by using matching and counting strategies.	
 Activities	
Counting & Cardinality - up to 20	Picture Graphs: More or Less
	More, Less or the Same to 10
	More, Less or the Same to 20
 Ebooks	
Kindergarten, Series A: Numbers and Patterns	Numbers to 10
	Numbers to 20

K.OA Operations & Algebraic Thinking

Understand addition as putting together and adding to, and understand subtraction as taking apart and taking from.

K.OA.1	
Represent addition and subtraction with objects, fingers, mental images, drawings, sounds (e.g., claps), acting out situations, verbal explanations, expressions, or equations.	
 Activities	
Teacher directed	
 Ebooks	
Kindergarten, Series A: Addition	Addition

K.OA.2

Solve addition and subtraction word problems, and add and subtract within 10, e.g., by using objects or drawings to represent the problem.

Activities

Operations & Algebraic Thinking

Model Addition
Model Subtraction
Adding to 5
Subtracting from 5
Adding to Ten
Subtracting from Ten
All about Ten
Adding to Make 5 and 10

Ebooks

Kindergarten, Series A: Addition

Addition

K.OA.3

Decompose numbers less than or equal to 10 into pairs in more than one way, e.g., by using objects or drawings, and record each decomposition by a drawing or equation (e.g., $5 = 2 + 3$ and $5 = 4 + 1$).

Activities

Teacher directed

Ebooks

Kindergarten, Series A: Addition

Addition

K.OA.4

For any number from 1 to 9, find the number that makes 10 when added to the given number, e.g., by using objects or drawings, and record the answer with a drawing or equation.

Activities

Operations & Algebraic Thinking

Adding to Make 5 and 10
Adding to 10 Word Problems

Ebooks

Kindergarten, Series A: Addition

Addition

K.OA.5

Fluently add and subtract within 5.

Activities

Operations & Algebraic Thinking

Adding to 5
Subtracting From 5

Ebooks

Kindergarten, Series A: Addition

Addition

K.NBT Number & Operations in Base Ten

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

K.NBT.1	
Compose and decompose numbers from 11 to 19 into ten ones and some further ones, e.g., by using objects or drawings, and record each composition or decomposition by a drawing or equation (e.g., $18 = 10 + 8$); understand that these numbers are composed of ten ones and one, two, three, four, five, six, seven, eight, or nine ones.	
Activities	
Number & Operations in Base Ten	Making Teen Numbers
	Make Numbers Count
Ebooks	
Kindergarten, Series A: Numbers and Patterns	Numbers to 20

K.MD Measurement and Data

Describe and compare measurable attributes.

K.MD.1	
Describe measurable attributes of objects, such as length or weight. Describe several measurable attributes of a single object.	
Activities	
Measurement & Data	Everyday Length
	Everyday Mass
	Hot or Cold?
	How Full?

K.MD.2	
Directly compare two objects with a measurable attribute in common, to see which object has “more of”/“less of” the attribute, and describe the difference.	
Activities	
Measurement & Data	Hot or Cold?
	Compare Length
	Which Holds More?

Classify objects and count the number of objects in each category.

K.MD.3	
Classify objects into given categories; count the numbers of objects in each category and sort the categories by count.	
Activities	
Measurement & Data	Sort It
	Same and Different
Ebooks	
Kindergarten, Series A: Time, Money and Data	Data

K.G Geometry

Identify and describe shapes (squares, circles, triangles, rectangles, hexagons, cubes, cones, cylinders, and spheres).

K.G.1 Describe objects in the environment using names of shapes, and describe the relative positions of these objects using terms such as above, below, beside, in front of, behind, and next to.	
 Activities	
Geometry	Where is it?
	Left or Right?
 Ebooks	
Kindergarten, Series A: Space and Shape	Position

K.G.2 Correctly name shapes regardless of their orientations or overall size.	
 Activities	
Geometry	Collect the Shapes
	Collect Simple Shapes
 Ebooks	
Kindergarten, Series A: Space and Shape	2D Shape

K.G.3 Identify shapes as two-dimensional (lying in a plane, “flat”) or three-dimensional (“solid”).	
 Activities	
Teacher directed	

Analyze, compare, create, and compose shapes.

K.G.4 Analyze and compare two- and three-dimensional shapes, in different sizes and orientations, using informal language to describe their similarities, differences, parts (e.g., number of sides and vertices/“corners”) and other attributes (e.g., having sides of equal length).	
 Activities	
Geometry	Count Sides and Corners
	Relate Shapes and Solids
 Ebooks	
Kindergarten, Series A: Space and Shape	2D Shape
	3D Shape

Grade 1

1.OA Operations & Algebraic Thinking

Represent and solve problems involving addition and subtraction

1.OA.1	
Use addition and subtraction within 20 to solve word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions.	
Activities	
Operations & Algebraic Thinking 1-4	Add and Subtract Using Graphs
	Add and Subtract Problems
	Adding to 10 Word Problems
	Problems: Add and Subtract
	Word Problems: Add and Subtract
Skill Quests	
Add & subtract within 20, word problems	Creating addition & subtraction word problems
Ebooks	
Grade 1, Series B: Operations with Number	Addition
	Subtraction
	Addition and Subtraction
Grade 1 Addition Worksheets	
Grade 1 Subtraction Worksheets	
Grade 1 Addition and Subtraction Worksheets	
Grade 1: Rich Task	Lady Bug Crawl

1.OA.2	
Solve word problems that call for addition of three whole numbers whose sum is less than or equal to 20.	
Activities	
Operations & Algebraic Thinking 1-4	Add Three 1-Digit Numbers
	Add 3 Single Digit Numbers
Skill Quests	
Add 3 single-digit numbers	Adding 3 single-digit numbers
Ebooks	
Grade 2, Series C: Operations with Number	Addition

Understand and apply properties of operations and the relationship between addition and subtraction

1.OA.3	
Apply properties of operations as strategies to add and subtract.	
Activities	
Operations & Algebraic Thinking 1-4	Commutative Property of Addition

	Adding In Any Order
 Skill Quests	
Apply properties to add & subtract	Using the commutative property of addition
 Ebooks	
Grade 1, Series B: Operations with Number	Addition
	Subtraction
	Addition and Subtraction
Grade 1 Addition Worksheets	
Grade 1 Subtraction Worksheets	
Grade 1 Addition and Subtraction Worksheets	
Grade 1: Rich Task	Lady Bug Crawl

1.OA.4	
Understand subtraction as an unknown-addend problem.	
 Activities	
Operations & Algebraic Thinking 1-4	Related Facts 1
 Skill Quests	
Teacher directed	
 Ebooks	
Grade 1, Series B: Operations with Number	Addition and Subtraction
Grade 1 Subtraction Worksheets	
Grade 1 Addition and Subtraction Worksheets	

Add and subtract within 20

1.OA.5	
Relate counting to addition and subtraction.	
 Activities	
Teacher directed	
 Skill Quests	
Relate counting to adding & subtracting	Relating counting to adding & subtracting
 Ebooks	
Grade 1, Series B: Operations with Number	Addition
	Subtraction
	Addition and Subtraction
Grade 1 Addition and Subtraction Worksheets	
Grade 1: Rich Task	Lady Bug Crawl

1.OA.6	
Add and subtract within 20, demonstrating fluency for addition and subtraction within 10. Use strategies such as counting on; making ten; decomposing a number leading to a ten; using the relationship between addition and subtraction; and creating equivalent but easier or known sums.	
 Activities	
Operations & Algebraic Thinking 5-8	Addition Facts

	Fact Families: Add and Subtract
	Adding to Ten
	Subtracting from Ten
	All about Twenty
	Subtracting from 20
	Add 3 Numbers Using Bonds to 10
	Doubles and Near Doubles
 Skill Quests	
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
 Ebooks	
Grade 1, Series B: Operations with Number	Addition
	Subtraction
	Addition and Subtraction
Grade 1 Addition and Subtraction Worksheets	
Grade 1: Rich Task	Lady Bug Crawl

Work with addition and subtraction equations.

1.OA.7	
Understand the meaning of the equal sign, and determine if equations involving addition and subtraction are true or false.	
 Activities	
Operations & Algebraic Thinking 5-8	Balancing Act
	Balancing Objects
	Composing Numbers to 10
	Composing Numbers to 20
	Composing Additions to 20
 Skill Quests	
Recognize equality & inequality	Recognizing equality & inequality
 Ebooks	
Grade 1, Series B: Operations with Number	Addition
	Subtraction
	Addition and Subtraction
Grade 1 Addition Worksheets	
Grade 1 Subtraction Worksheets	
Grade 1 Addition and Subtraction Worksheets	

1.OA.8	
Determine the unknown whole number in an addition or subtraction equation relating three whole numbers.	
 Activities	
Operations & Algebraic Thinking 5-8	Missing Numbers

 Skill Quests	
Find the unknown number in an equation	Finding the unknown: addition/subtraction equation
 Ebooks	
Grade 1, Series B: Operations with Number	Addition and Subtraction

1.NBT Number & Operations in Base Ten

Extend the counting sequence

1.NBT.1 Count to 120, starting at any number less than 120. In this range, read and write numerals and represent a number of objects with a written numeral.	
 Activities	
Number & Operations in Base Ten 1-3	Make Big Numbers Count
	Before, After & Between to 100
	Counting Forward
	Going Up
 Skill Quests	
Count within 100	Counting within 100
Read & write 2-digit numerals	Reading & writing 2-digit numerals
Represent 2-digit objects as numerals	Representing 2-digit objects as numerals
 Ebooks	
Grade 1, Series B: Numbers	Numbers to 100
	Skip counting

Understand place value

1.NBT.2 Understand that the two digits of a two-digit number represent amounts of tens and ones. Understand the following as special cases: a. 10 can be thought of as a bundle of ten ones — called a "ten." b. The numbers from 11 to 19 are composed of a ten and one, two, three, four, five, six, seven, eight, or nine ones. c. The numbers 10, 20, 30, 40, 50, 60, 70, 80, 90 refer to one, two, three, four, five, six, seven, eight, or nine tens (and 0 ones).	
 Activities	
Number & Operations in Base Ten 1-3	Place Value 1
	Making Teen Numbers
	Making Numbers Count
 Skill Quests	
Understand tens & ones	Understanding tens & ones
 Ebooks	
Grade 1, Series B: Numbers	Place value to 99
1.NBT.3 Compare two two-digit numbers based on meanings of the tens and ones digits, recording the results of comparisons with the symbols $>$, $=$, and $<$.	
 Activities	
Number & Operations in Base Ten 1-3	Compare Numbers to 20

	Compare Numbers to 50
	Compare Numbers to 100
	Greater or Less to 100
 Skill Quests	
Compare 2-digit numbers	Comparing 2-digit numbers
 Ebooks	
Grade 1, Series B: Numbers	Place value to 99

Use place value understanding and properties of operations to add & subtract

1.NBT.4	
Add within 100, including adding a two-digit number and a one-digit number, and adding a two-digit number and a multiple of 10, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used. Understand that in adding two-digit numbers, one adds tens and tens, ones and ones; and sometimes it is necessary to compose a ten.	
 Activities	
Number & Operations in Base Ten 4-6	Complements to 10, 20, 50
	Complements to 50 and 100
	Columns that Add
	Additive Addition
 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
 Ebooks	
Grade 2 Addition Worksheets	

1.NBT.5	
Given a two-digit number, mentally find 10 more or 10 less than the number, without having to count; explain the reasoning used.	
 Activities	
Number & Operations in Base Ten 4-6	1 More, 10 Less
 Skill Quests	
Find 10 more or 10 less	Finding 10 more or 10 less
 Ebooks	
Grade 1, Series B: Numbers	Place value to 99

1.NBT.6	
Subtract multiples of 10 in the range 10-90 from multiples of 10 in the range 10-90 (positive or zero differences), using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.	
 Activities	
Number & Operations in Base Ten 4-6	Subtract Tens
 Skill Quests	
Teacher directed	

1.MD Measurement & Data

Measure lengths indirectly and by iterating length units

1.MD.1 Order three objects by length; compare the lengths of two objects indirectly by using a third object.	
 Activities	
Measurement & Data	Compare Length 1
	Comparing Length
	Everyday Length
 Skill Quests	
Order & compare objects by length	Comparing & ordering lengths
 Ebooks	
Grade 1, Series B: Measurement	Length

1.MD.2 Express the length of an object as a whole number of length units, by laying multiple copies of a shorter object (the length unit) end to end; understand that the length measurement of an object is the number of same-size length units that span it with no gaps or overlaps.	
 Activities	
Measurement & Data	Measuring Length with Blocks
 Skill Quests	
Express the length of an object	Expressing the length of an object
 Ebooks	
Grade 1, Series B: Measurement	Length

Tell and write time

1.MD.3 Tell and write time in hours and half-hours using analog and digital clocks.	
 Activities	
Measurement & Data	Set Time to the Hour
	Set Time to the Half Hour
 Skill Quests	
Tell time	Telling time with analog clocks
	Telling time with digital clocks
 Ebooks	
Grade 1, Series B: Time and Money	Time
Grade 2, Series C: Time and Money	Time

Represent and interpret data

1.MD.4	
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.	
 Activities	
Measurement & Data	Pictographs
	Picture Graphs: Who has the Goods?
	Read Graphs
	Sorting Data
 Skill Quests	
Organize, represent & interpret data	Introducing & reading data in tables
	Representing data in graphs
	Interpreting tally charts & picture graphs
 Ebooks	
Grade 1, Series B: Chance and Data	Data

1.G Geometry

Reason with shapes and their attributes.

1.G.1	
Distinguish between defining attributes versus non-defining attributes; build and draw shapes to possess defining attributes.	
 Activities	
Geometry	Collect Simple Shapes
	Collect the Shapes
	Collect More Shapes
	Count Sides and Corners
 Skill Quests	
Sort shapes based on attributes	Sorting shapes based on attributes

1.G.2	
Compose two-dimensional shapes or three-dimensional shapes to create a composite shape, and compose new shapes from the composite shape.	
 Activities	
Teacher directed	
 Skill Quests	
Composite shapes: 2-D & 3-D	Composite shapes: 2-D & 3-D
 Ebooks	
Grade 1, Series B: Shape and Space	2D Space
	3D Space

1.G.3

Partition circles and rectangles into two and four equal shares, describe the shares using the words halves, fourths, and quarters, and use the phrases half of, fourth of, and quarter of. Describe the whole as two of, or four of the shares. Understand for these examples that decomposing into more equal shares creates smaller shares.

Activities

Geometry

Halves

Halves and Fourths

Skill Quests

Teacher directed

Ebooks

Grade 1, Series B: Numbers

Fractions

Grade 2

2.OA Operations & Algebraic Thinking

Represent and solve problems involving addition and subtraction

2.OA.1 Count to 100 by ones and by tens.	
 Activities	
Operations & Algebraic Thinking	Bar Model Problems 1
	Bar Model Problems 2
 Skill Quests	
Add & subtract within 100, word problems	Creating addition & subtraction word problems

Add and subtract within 20

2.OA.2 Fluently add and subtract within 20 using mental strategies. By end of Grade 2, know from memory all sums of two one-digit numbers.	
 Activities	
Operations & Algebraic Thinking	Addition
	Addition Facts
	Additive Addition
	Subtraction Facts to 18
	Simple Subtraction
	Fact Families: Add and Subtract
 Skill Quests	
Add & subtract within 100, word problems	Creating addition & subtraction word problems
	Adding & subtracting two 1-digit numbers
 Ebooks	
Grade 2, Series C: Operations with Number	Addition
	Subtraction

Work with equal groups of objects to gain foundations for multiplication

2.OA.3 Determine whether a group of objects (up to 20) has an odd or even number of members; write an equation to express an even number as a sum of two equal addends.	
 Activities	
Operations & Algebraic Thinking	Odd or Even
 Skill Quests	
Odd & even numbers	Odd & even numbers up to 20
 Ebooks	
Grade 2, Series C: Numbers	Skip counting

2.OA.4

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.

Activities

Operations & Algebraic Thinking

Groups of Two

Groups of Three

Groups of Four

Groups of Five

Skill Quests

Connect addition & arrays

Connecting addition & arrays

Ebooks

Grade 2, Series C: Operations with Number

Multiplication

2.NBT Number & Operations in Base Ten

Understand place value

2.NBT.1

Understand that the three digits of a three-digit number represent amounts of hundreds, tens, and ones. Understand the following as special cases: a. 100 can be thought of as a bundle of ten tens—called a "hundred." b. The numbers 100, 200, 300, 400, 500, 600, 700, 800, 900 refer to one, two, three, four, five, six, seven, eight, or nine hundreds (and 0 tens and 0 ones).

Activities

Number & Operations in Base Ten 1-4

Model Numbers

Place Value 2

Understanding Place Value 1

Place Value Partitioning

Skill Quests

Understand hundreds, tens & ones

Understanding hundreds, tens & ones

Ebooks

Grade 2, Series C: Numbers

Place value to 999

2.NBT.2

Count within 1000; skip-count by 5s, 10s, and 100s.

Activities

Number & Operations in Base Ten 1-4

Count by Fives

Count by Tens

Count by 2s, 5s and 10s

Skill Quests

Skip-count within 1000

Skip-counting by 10s

Skip-counting by 5s

Skip-counting by 100s

Counting within 1000

Ebooks

Grade 2, Series C: Numbers

Skip Counting

2.NBT.3

Read and write numbers to 1000 using base-ten numerals, number names, and expanded form.

Activities

Teacher directed

Skill Quests

Read & write numbers to 1000

Reading & writing numbers to 1000

Ebooks

Grade 2, Series C: Numbers

Place value to 999

2.NBT.4

Compare two three-digit numbers based on meanings of the hundreds, tens, and ones digits, using $>$, $=$, and $<$ symbols to record the results of comparisons.

Activities

Number & Operations in Base Ten 1-4

Which is Bigger?

Which is Smaller?

Skill Quests

Compare 3-digit numbers

Comparing 3-digit numbers

Ebooks

Grade 2, Series C: Numbers

Place value to 999

Use place value understanding and properties of operations to add and subtract

2.NBT.5

Fluently add and subtract within 100 using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction.

Activities

Number & Operations in Base Ten 5-8

Complements to 10, 20, 50

Complements to 50 and 100

Adding to 2-digit numbers

Decompose Numbers to Subtract

Skill Quests

Add & subtract within 100

Using strategies to add & subtract within 100

Adding & subtracting using a 100 chart

Ebooks

Grade 2, Series C: Operations with Number

Addition

Subtraction

Grade 2 Addition Worksheets

Grade 2 Subtraction Worksheets

2.NBT.6

Add up to four two-digit numbers using strategies based on place value and properties of operations.

Activities

Number & Operations in Base Ten 5-8

Add 3 Numbers: Bonds to 100

	Add 3 Numbers: Bonds to Multiples of 10
	Add Two 2-Digit Numbers
	Add Two 2-Digit Numbers: Regroup
 Skill Quests	
Add 2-digit numbers, strategies	Adding 2-digit numbers, strategies
 Ebooks	
Grade 2, Series C: Operations with Number	Addition
Grade 2 Addition Worksheets	
Grade 2: Rich Task	Four Times as Big

2.NBT.7

Add and subtract within 1000, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method. Understand that in adding or subtracting three-digit numbers, one adds or subtracts hundreds and hundreds, tens and tens, ones and ones; and sometimes it is necessary to compose or decompose tens or hundreds.

 Activities	
Number & Operations in Base Ten 5-8	Add 3-Digit Numbers
	Add 3-Digit Numbers: Regroup
	2-Digit Differences
	2-Digit Differences: Regroup
	3-Digit Differences
	3-Digit Differences with Zeros
	3-Digit Differences: 1 Regrouping
	3-Digit Differences: 2 Regroupings
 Skill Quests	
Add & subtract within 1000	Adding within 1000
	Subtracting within 1000
 Ebooks	
Grade 2, Series C: Operations with Number	Addition
	Subtraction
Grade 2 Addition Worksheets	
Grade 2 Subtraction Worksheets	
Grade 2: Rich Task	Four Times as Big

2.NBT.8

Mentally add 10 or 100 to a given number 100-900, and mentally subtract 10 or 100 from a given number 100-900.

 Activities	
Teacher directed	
 Skill Quests	
Add & subtract 10 or 100 mentally	Adding & subtracting 10 or 100 mentally

2.NBT.9

Explain why addition and subtraction strategies work, using place value and the properties of operations.

 Activities	
Teacher directed	

Skill Quests

Teacher directed

2.MD Measurement & Data

Measure and estimate lengths in standard units

2.MD.1

Measure the length of an object by selecting and using appropriate tools such as rulers, yardsticks, meter sticks, and measuring tapes.

Activities

Measurement & Data

Measuring Length

How Long Is That (Customary)?

Measure to the Nearest Half Inch

Skill Quests

Select units of measure: m, cm

Selecting units of measure: m, cm

Ebooks

Grade 2, Series C: Measurement

Length

2.MD.2

Measure the length of an object twice, using length units of different lengths for the two measurements; describe how the two measurements relate to the size of the unit chosen.

Activities

Teacher directed

Skill Quests

Teacher directed

2.MD.3

Estimate lengths using units of inches, feet, centimeters, and meters.

Activities

Measurement & Data

Inches, Feet, Yards

Skill Quests

Teacher directed

Ebooks

Grade 2, Series C: Measurement

Length

2.MD.4

Measure to determine how much longer one object is than another, expressing the length difference in terms of a standard length unit.

Activities

Teacher directed

Skill Quests

Teacher directed

 Ebooks	
Grade 2, Series C: Measurement	Length

Relate addition and subtraction to length

2.MD.5	
Use addition and subtraction within 100 to solve word problems involving lengths that are given in the same units	
 Activities	
Teacher directed	
 Skill Quests	
Addition & subtraction length problems	Solving addition & subtraction length problems
 Ebooks	
Grade 2: Rich Task	3 Ribbons

2.MD.6	
Represent whole numbers as lengths from 0 on a number line diagram with equally spaced points corresponding to the numbers 0, 1, 2, ..., and represent whole-number sums and differences within 100 on a number line diagram.	
 Activities	
Teacher directed	
 Skill Quests	
Teacher directed	
 Ebooks	
Grade 2, Series C: Operations with Number	Addition
	Subtraction
Grade 2 Addition Worksheets	
Grade 2 Subtraction Worksheets	

Works with time and money

2.MD.7	
Tell and write time from analog and digital clocks to the nearest five minutes, using a.m. and p.m.	
 Activities	
Measurement & Data	Five Minute Times
 Skill Quests	
Tell time	Telling time to the quarter hour, analog & digital
	Telling time to 5 minutes, analog & digital
	Using a.m. & p.m. notation
 Ebooks	
Grade 2, Series C: Time and Money	Time
Grade 3, Series D: Time	Telling time

2.MD.8	
Solve word problems involving dollar bills, quarters, dimes, nickels, and pennies, using \$ and ¢ symbols appropriately.	
 Activities	
Measurement & Data	How Much Money? (USD)
	Money-Totaling (USD)
	Who's got the Money?
	Choosing the Fewest Coins (USD)
 Skill Quests	
Money	Solving money word problems
 Ebooks	
Grade 2, Series C: Time and Money	Money

Represent and interpret data

2.MD.9	
Generate measurement data by measuring lengths of several objects to the nearest whole unit, or by making repeated measurements of the same object. Show the measurements by making a line plot, where the horizontal scale is marked off in whole-number units.	
 Activities	
Teacher directed	
 Skill Quests	
Introduction to line plots	Reading line plots

2.MD.10	
Draw a picture graph and a bar graph (with single-unit scale) 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.	
 Activities	
Measurement & Data	Bar Graphs 1
	Bar Graphs 2
	Picture Graphs: single-unit scale
 Skill Quests	
Picture graphs & bar graphs	Picture graphs
	Bar graphs
 Ebooks	
Grade 2, Series C: Chance and Data	Money

2.G Geometry

Reason with shapes and their attributes

2.G.1

Recognize and draw shapes having specified attributes, such as a given number of angles or a given number of equal faces. Identify triangles, quadrilaterals, pentagons, hexagons, and cubes.

Activities

Geometry

How Many Faces?

How many Edges?

How many Corners?

Count Sides and Corners

Collect Simple Shapes

Collect More Shapes

Skill Quests

Recognize & identify shapes

Identifying & sorting shapes

Identifying quadrilaterals

Identifying pentagons

Identifying hexagons

Identifying cubes

Ebooks

Grade 2, Series C: Space and Shape

2D Space

2D Shape

2.G.2

Partition a rectangle into rows and columns of same-size squares and count to find the total number of them.

Activities

Teacher directed

Skill Quests

Teacher directed

2.G.3

Partition circles and rectangles into two, three, or four equal shares, describe the shares using the words halves, thirds, half of, a third of, etc., and describe the whole as two halves, three thirds, four fourths. Recognize that equal shares of identical wholes need not have the same shape.

Activities

Geometry

Shade Fractions

Halves

Halves and Fourths

Skill Quests

Teacher directed

Ebooks

Grade 2, Series C: Numbers

Fractions



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