Mathletics
California Content Standards

Activities (Courses), Skill Quests
and eBooks

Grades K-2

September, 2025

Mathletics

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Kindergarten

K. CC Counting & Cardinality
Big ideas

Sort and Describe Data	CC.4, CC.5
How Many?	CC.1, CC.2, CC.3, CC.4, CC.5, CC.6, CC.7
Bigger or Equal?	CC.4, CC.5, CC.6
Being Flexible within 10	CC.6
Place and Position of Numbers	CC.3, CC.5
Model with Numbers	
Shapes in the World	
Making Shapes from Parts	

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

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

K.CC.4
Understand the relationship between numbers and quantities; connect counting to cardinality.

📖 **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
	Concept of Zero

📖 **Ebooks**	
Kindergarten, Series A: Numbers and Patterns	Numbers to 10
	Numbers to 20

Compare numbers

K.CC.C.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.CC.C.7
Compare two numbers between 1 and 10 presented as written numerals
🖿 **Activities**
Teacher directed

K.OA Operations & Algebraic Thinking

Big ideas

Sort and Describe Data	
How Many?	
Bigger or Equal?	
Being Flexible within 10	OA.1, OA.2, OA.3, OA.4, OA.5
Place and Position of Numbers	
Model with Numbers	OA.1, OA.2, OA.5
Shapes in the World	
Making Shapes from Parts	

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
	Adding to 10 Word Problems
📖 **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

Big ideas

Sort and Describe Data	
How Many?	
Bigger or Equal?	
Being Flexible within 10	
Place and Position of Numbers	NBT.1
Model with Numbers	
Shapes in the World	
Making Shapes from Parts	

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

Kindergarten, Series A: Numbers and Patterns	Numbers to 20

K.MD Measurement and Data

Big ideas

Sort and Describe Data	MD.1, MD.2, MD.3
How Many?	MD.3
Bigger or Equal?	MD.2
Being Flexible within 10	
Place and Position of Numbers	
Model with Numbers	MD.2
Shapes in the World	MD.1, MD.2, MD.3
Making Shapes from Parts	MD.1, MD.2

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

Big ideas

Sort and Describe Data	G.4
How Many?	
Bigger or Equal?	G.4
Being Flexible within 10	G.6
Place and Position of Numbers	
Model with Numbers	
Shapes in the World	G.1, G.2, G.3, G.4, G.5, G.6
Making Shapes from Parts	G.4, G.5, G.6

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

K.G.5
Model shapes in the world by building shapes from components (e.g., sticks and clay balls) and drawing shapes.

📖 Activities

Teacher directed

K.G.6
Compose simple shapes to form larger shapes.

📖 Activities

Teacher directed

📖 Ebooks

Kindergarten, Series A: Space and Shape	2D Shape

Grade 1

1.OA Operations & Algebraic Thinking
Big ideas

Making Sense of Data	OA.1, OA.2, OA.3
Measuring with Objects	OA.5
Clocks and Time	
Equal Expressions	OA.1, OA.2, OA.3, OA.4, OA.5, OA.6, OA.7, OA.8
Reasoning About Equality	OA.3, OA.6, OA.7
Tens and Ones	
Equal Parts Inside Shapes	

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 and Subtract Problems
	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
	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

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	

<table>
<tr><td colspan="2" align="center">**1.OA.8**

Determine the unknown whole number in an addition or subtraction equation relating three whole numbers.</td></tr>
<tr><td colspan="2">📑 **Activities**</td></tr>
<tr><td>**Operations & Algebraic Thinking 5-8**</td><td>Missing Numbers</td></tr>
<tr><td colspan="2">👑 **Skill Quests**</td></tr>
<tr><td>**Find the unknown number in an equation**</td><td>Finding the unknown: addition/subtraction equation</td></tr>
<tr><td colspan="2">📖 **Ebooks**</td></tr>
<tr><td>**Grade 1, Series B: Operations with Number**</td><td>Addition and Subtraction</td></tr>
</table>

1.NBT Number & Operations in Base Ten

Big ideas

Making Sense of Data	NBT.1
Measuring with Objects	
Clocks and Time	NBT.2
Equal Expressions	NBT.4
Reasoning About Equality	NBT.2, NBT.3, NBT.4
Tens and Ones	NBT.1, NBT.2, NBT.3, NBT.4, NBT.5, NBT.6
Equal Parts Inside Shapes	

Extend the counting sequence

<table>
<tr><td colspan="2" align="center">**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.</td></tr>
<tr><td colspan="2">📑 **Activities**</td></tr>
<tr><td rowspan="4">**Number & Operations in Base Ten 1-3**</td><td>Make Big Numbers Count</td></tr>
<tr><td>Before, After & Between to 100</td></tr>
<tr><td>Counting Forward</td></tr>
<tr><td>Going Up</td></tr>
<tr><td colspan="2">👑 **Skill Quests**</td></tr>
<tr><td>**Count within 100**</td><td>Counting within 100</td></tr>
<tr><td>**Read & write 2-digit numerals**</td><td>Reading & writing 2-digit numerals</td></tr>
<tr><td>**Represent 2-digit objects as numerals**</td><td>Representing 2-digit objects as numerals</td></tr>
<tr><td colspan="2">📖 **Ebooks**</td></tr>
<tr><td rowspan="2">**Grade 1, Series B: Numbers**</td><td>Numbers to 100</td></tr>
<tr><td>Skip counting</td></tr>
</table>

Understand place value

<table>
<tr><td align="center">**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)..</td></tr>
</table>

☰ 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
	Addictive 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

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

Big ideas

Making Sense of Data	MD.1, MD.2, MD.3, MD.4
Measuring with Objects	MD.1, MD.2
Clocks and Time	MD.3
Equal Expressions	
Reasoning About Equality	
Tens and Ones	
Equal Parts Inside Shapes	MD.3

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

C. 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

Big ideas

Making Sense of Data	MD.1, MD.2, MD.3, MD.4
Measuring with Objects	MD.1, MD.2
Clocks and Time	MD.3
Equal Expressions	
Reasoning About Equality	
Tens and Ones	
Equal Parts Inside Shapes	MD.3

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.

📖 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

Big ideas

Measure and Compare Objects	
Represent Data	
Dollars and Cents	
Problem Solving with Measure	OA.1
Skip Counting to 100	OA.4
Number Strategies	OA.1, OA.2
Seeing Fractions in Shapes	
Squares in an Array	OA.4

Represent and solve problems involving addition and subtraction

2.OA.1	
Use addition and subtraction within 100 to solve one- and two-step word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions.	
🖳 **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
	Addictive 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

Big ideas

Measure and Compare Objects	
Represent Data	NBT.2
Dollars and Cents	NBT.1, NBT.2, NBT.5, NBT.6, NBT.7, NBT.9
Problem Solving with Measure	NBT.1, NBT.7
Skip Counting to 100	NBT.1, NBT.3, NBT.7, NBT.9
Number Strategies	NBT.5, NBT.6, NBT.7
Seeing Fractions in Shapes	
Squares in an Array	

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
	Decompose Numbers

👑 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 Twos
	Count by Fives
	Count by Tens
	Count by 2s, 5s and 10s

👑 Skill Quests

Skip-count within 1000	Skip-counting by 2s
	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

Big ideas

Measure and Compare Objects	MD.1, MD.2, MD.3, MD.4, MD.6, MD.9
Represent Data	MD.7, MD.9, MD.10
Dollars and Cents	MD.5, MD.8
Problem Solving with Measure	MD.1, MD.2, MD.3, MD.4, MD.5, MD.6, MD.9
Skip Counting to 100	
Number Strategies	MD.5
Seeing Fractions in Shapes	MD.7
Squares in an Array	MD.6

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	Recognizing bills & coins
	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

Big ideas

Measure and Compare Objects	
Represent Data	G.2, G.3
Dollars and Cents	
Problem Solving with Measure	
Skip Counting to 100	G.2
Number Strategies	
Seeing Fractions in Shapes	G.1, G.2, G.3
Squares in an Array	G.2, G.3

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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