Mathletics
New York State Next Generation Learning Standards

Activities (Courses), Skill Quests and eBooks

Grades K-2

September, 2025

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Kindergarten

NY-K.CC Counting & Cardinality

Know number names and the count sequence.

NY-K.CC.1	
Count to 100 by ones and by tens.	
📋 **Activities**	
Counting & Cardinality	1 to 30
	Count by Tens

NY-K.CC.2	
Count to 100 by ones beginning from any given number (instead of beginning at 1).	
📋 **Activities**	
Counting & Cardinality - up to 20	Before, After and Between to 20
	Order Numbers to 10
	Order Numbers to 20
	Counting Up to 20
Counting & Cardinality	Counting Forward
	Going Up

NY-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.

NY-K.CC.4	
Understand the relationship between numbers and quantities; connect counting to cardinality.	
📋 **Activities**	
Counting & Cardinality - up to 20	Count to 5
	Ordinal Numbers
📖 **Ebooks**	
Kindergarten, Series A: Numbers and Patterns	Numbers to 10
	Numbers to 20
Kindergarten: Rich Task	Walking Back and Forth

NY-K.CC.5	
Answer counting questions using as many as 20 objects arranged in a line, a rectangular array, and a circle. Answer counting questions using as many as 10 objects 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

NY-K.CC.6	
Identify whether the number of objects in one group is greater than (more than), less than (fewer than), or equal to (the same as) the number of objects in another group.	
📖 **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

NY-K.CC.7	
Compare two numbers between 1 and 10 presented as written numerals.	
📖 **Activities**	
Teacher directed	
📖 **Ebooks**	
Kindergarten, Series A: Numbers and Patterns	Numbers to 10

NY-K.OA Operations & Algebraic Thinking

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

NY-K.OA.1	
Represent addition and subtraction using objects, fingers, pennies, drawings, sounds, acting out situations, verbal explanations, expressions, equations, or other strategies.	
📖 **Activities**	
Operations & Algebraic Thinking	Model Addition
	Model Subtraction

📖 Ebooks	
Kindergarten, Series A: Addition	Addition

NY-K.OA.2
Add and subtract within 10; Solve addition and subtraction word problems within 10.

📋 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

NY-K.OA.3
Decompose numbers less than or equal to 10 into pairs in more than one way. Record each decomposition with a drawing or equation.

📋 Activities	
Teacher directed	

📖 Ebooks	
Kindergarten, Series A: Addition	Addition

NY-K.OA.4
Find the number that makes 10 when given a number from 1 to 9. Record the answer with a drawing or equation.

📋 Activities	
Operations & Algebraic Thinking	Adding to Make 5 and 10

📖 Ebooks	
Kindergarten, Series A: Addition	Addition

NY-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

Understand simple patterns.

NY-K.OA.6 Duplicate, extend, and create simple patterns using concrete objects.	
📋 **Activities**	
Operations & Algebraic Thinking	Complete the Pattern
	Simple Patterns
	Pattern Error
	Color Patterns
📖 **Ebooks**	
Kindergarten, Series A: Addition	Addition

NY-K.NBT Number & Operations in Base Ten

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

NY-K.NBT.1 Compose and decompose the numbers from 11 to 19 into 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

NY-K.MD Measurement and Data

Describe and compare measurable attributes.

NY-K.MD.1 Describe measurable attributes of an object(s), such as length or weight, using appropriate vocabulary.	
📋 **Activities**	
Measurement & Data	Everyday Length
	Everyday Mass
	Hot or Cold?
	How Full?

NY-K.MD.2 Directly compare two objects with a common measurable attribute and describe the difference.	
📋 **Activities**	
Measurement & Data	Everyday Length
	Everyday Mass
	Hot or Cold?
	Compare Length
	Which Holds More?

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

NY-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

NY-K.MD.4
Explore coins (pennies, nickels, dimes, and quarters) and begin identifying pennies and dimes.
⊞ **Activities**
Measurement & Data	Pennies, Nickels, and Dimes

NY-K.G Geometry

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

NY-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

NY-K.G.2
Name shapes regardless of their orientation or overall size.
⊞ **Activities**
Geometry	Collect the Shapes
	Collect Simple Shapes
📖 **Ebooks**
Kindergarten, Series A: Space and Shape	2D Shape

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

Analyze, compare, create, and compose shapes.

NY-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 and other attributes.

📖 Activities	
Geometry	Collect the Shapes
	Collect Simple Shapes
	Count Sides and Corners
	Relate Shapes and Solids

📖 Ebooks	
Kindergarten, Series A: Space and Shape	2D Shape
	3D Shape

NY-K.G.5

Model objects in their environment by building and/or drawing shapes.

📖 Activities
Teacher directed

NY-K.G.6

Compose larger shapes from simple shapes.

📖 Activities	
Teacher directed	

📖 Ebooks	
Kindergarten, Series A: Space and Shape	2D Shape

Grade 1

NY-1.OA Operations & Algebraic Thinking

Represent and solve problems involving addition and subtraction

NY-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

NY-1.OA.2	
Solve word problems that call for addition of three whole numbers whose sum is less than or equal to 20.	
▤ **Activities**	
Teacher directed	
♛ **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

NY-1.OA.3	
Apply properties of operations as strategies to add and subtract.	
▤ **Activities**	
Operations & Algebraic Thinking 1-4	Commutative Property of Addition
	Add 3 Single Digit Numbers

	Add 3 Numbers Using Bonds to 10
	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

NY-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

NY-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

NY-1.OA.6a
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. a) Add and subtract within 20 using strategies.

📋 Activities	

Operations & Algebraic Thinking 1-4	Add three 1-Digit Numbers
	Add 3 Single Digit Numbers
	Add 3 Numbers Using Bonds to 10
Operations & Algebraic Thinking 5-8	Addition Facts
	All about Twenty
	Subtracting from 20
	Doubles and Near Doubles
	Related Facts 1

👑 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

NY-1.OA.6b

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. b) Fluently add and subtract within 10.

📋 Activities

Operations & Algebraic Thinking 5-8	Fact Families: Add and Subtract
	Adding to Ten
	Subtracting from Ten

👑 Skill Quests

Teacher directed

📖 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

NY-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	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	

NY-1.OA.8

Determine the unknown whole number in an addition or subtraction equation with the unknown in all positions.

📰 Activities

Operations & Algebraic Thinking 5-8	Missing Numbers
	Composing Numbers to 10
	Composing Numbers to 20
	Composing Additions to 20

👑 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

NY-1.NBT Number & Operations in Base Ten

Extend the counting sequence

NY-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	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

<table>
<tr><td colspan="2" align="center">

NY-1.NBT.2

Understand that the two digits of a two-digit number represent amounts of tens and ones.
</td></tr>
<tr><td colspan="2">📋 **Activities**</td></tr>
<tr><td>**Number & Operations in Base Ten**</td><td>Place Value 1</td></tr>
<tr><td></td><td>Making Teen Numbers</td></tr>
<tr><td></td><td>Making Numbers Count</td></tr>
<tr><td></td><td>Make Big Numbers Count</td></tr>
<tr><td colspan="2">👑 **Skill Quests**</td></tr>
<tr><td>**Understand tens & ones**</td><td>Understanding tens & ones</td></tr>
<tr><td colspan="2">📖 **Ebooks**</td></tr>
<tr><td>**Grade 1, Series B: Numbers**</td><td>Place value to 99</td></tr>
</table>

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NY-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 <.
</td></tr>
<tr><td colspan="2">📋 **Activities**</td></tr>
<tr><td>**Number & Operations in Base Ten 1-3**</td><td>Compare Numbers to 20</td></tr>
<tr><td></td><td>Compare Numbers to 50</td></tr>
<tr><td></td><td>Compare Numbers to 100</td></tr>
<tr><td></td><td>Greater or Less to 100</td></tr>
<tr><td colspan="2">👑 **Skill Quests**</td></tr>
<tr><td>**Compare 2-digit numbers**</td><td>Comparing 2-digit numbers</td></tr>
<tr><td colspan="2">📖 **Ebooks**</td></tr>
<tr><td>**Grade 1, Series B: Numbers**</td><td>Place value to 99</td></tr>
</table>

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

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NY-1.NBT.4

Add within 100, including a two-digit number and a one-digit number; a two-digit number and a multiple of 10. Use concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction. Understand that in adding two-digit numbers, one adds tens and tens, ones and ones, and sometimes it is necessary to compose a ten. Relate the strategy to a written representation and explain the reasoning used.
</td></tr>
<tr><td colspan="2">📋 **Activities**</td></tr>
<tr><td>**Number & Operations in Base Ten 4-6**</td><td>Complements to 10, 20, 50</td></tr>
<tr><td></td><td>Complements to 50 and 100</td></tr>
<tr><td></td><td>Columns that Add</td></tr>
<tr><td></td><td>Addictive Addition</td></tr>
<tr><td colspan="2">👑 **Skill Quests**</td></tr>
<tr><td>**Add within 100**</td><td>Adding a 2-digit number & a 1-digit number, models</td></tr>
<tr><td></td><td>Adding a 2-digit number & a 1-digit number</td></tr>
<tr><td></td><td>Adding a 2-digit number & a multiple of 10</td></tr>
<tr><td colspan="2">📖 **Ebooks**</td></tr>
<tr><td colspan="2">**Grade 2 Addition Worksheets**</td></tr>
</table>

NY-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

NY-1.NBT.6

Subtract multiples of 10 from multiples of 10 in the range 10–90 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 used to a written representation and explain the reasoning.

📖 Activities

Number & Operations in Base Ten 4-6	Subtract Tens

👑 Skill Quests

Teacher directed

NY-1.MD Measurement & Data

Measure lengths indirectly and by iterating length units

NY-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

👑 Skill Quests

Order & compare objects by length	Comparing & ordering lengths

📖 Ebooks

Grade 1, Series B: Measurement	Length

NY-1.MD.2

Measure the length of an object using same-size "length units" placed end to end with no gaps or overlaps. Express the length of an object as a whole number of "length units."

📖 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 and money

NY-1.MD.3a
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

NY-1.MD.3b
Recognize and identify coins (penny, nickel, dime, and quarter) and their value and use the cent symbol (¢) appropriately.

📑 **Activities**	
Measurement & Data	Pennies, Nickels, and Dimes
👑 **Skill Quests**	
Teacher directed	

Represent and interpret data

NY-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

NY-1.G Geometry

Reason with shapes and their attributes

NY-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

NY-1.G.2	
Compose two-dimensional shapes (rectangles, squares, trapezoids, triangles, half-circles, and quarter-circles) or three-dimensional shapes (cubes, right rectangular prisms, right circular cones, and right circular cylinders) 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

NY-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 Quarters
👑 **Skill Quests**	
Teacher directed	
📖 **Ebooks**	
Grade 1, Series B: Numbers	Fractions

Grade 2

NY-2.OA Operations & Algebraic Thinking

Represent and solve problems involving addition and subtraction

NY-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

NY-2.OA.2	
Fluently add and subtract within 20 using mental strategies. Strategies could include: 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	Addition
	Addition Facts
	Addictive Addition
	Subtraction Facts to 18
	Simple Subtraction
	Fact Families: Add and Subtract
♛ **Skill Quests**	
Add & subtract within 20	Fluently adding & subtracting within 20
	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

NY-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

NY-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

NY-2.NBT Number & Operations in Base Ten

Understand place value

NY-2.NBT.1
Understand that the three digits of a three-digit number represent amounts of hundreds, tens, and 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

NY-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

NY-2.NBT.3

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

📖 Activities

Number & Operations in Base Ten 1-4	Model Numbers
	Place Value 2
	Understanding Place Value 1
	Decompose Numbers

👑 Skill Quests

Read & write numbers to 1000	Reading & writing numbers to 1000

📖 Ebooks

Grade 2, Series C: Numbers	Place value to 999

NY-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

NY-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
	Add Two 2-Digit Numbers
	Add Two 2-Digit Numbers: Regroup
	Add 3 Numbers: Bonds to Multiples of 10

👑 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	

NY-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
	Adding to 2-digit numbers
	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

NY-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

NY-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

NY-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

NY-2.MD Measurement & Data

Measure and estimate lengths in standard units

NY-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
	Inches, Feet, Yards

♛ **Skill Quests**	
Select units of measure: m, cm	Selecting units of measure: m, cm

📖 **Ebooks**	
Grade 2, Series C: Measurement	Length

NY-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

NY-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

NY-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

NY-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

NY-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

NY-2.MD.7

Tell and write time from analog and digital clocks in five minute increments, using a.m. and p.m. Develop an understanding of common terms, such as, but not limited to, quarter past, half past, and quarter to.

🖳 **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

NY-2.MD.8

Count a mixed collection of coins whose sum is less than or equal to one dollar. Solve real world and mathematical problems within one dollar involving quarters, dimes, nickels, and pennies, using the ¢ (cent) symbol 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

NY-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

NY-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

NY-2.G Geometry

Reason with shapes and their attributes

NY-2.G.1	
Classify two-dimensional figures as polygons or non-polygons.	
📃 **Activities**	
Geometry	Collect the polygons
👑 **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

NY-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	

NY-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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