

Main Criteria: Georgia Standards of Excellence
Secondary Criteria: Elementary Mathematics Grade K v21

Subject: Mathematics

Grade: K

Correlation Options: Show Correlated

Georgia Standards of Excellence

Mathematics

Grade: K - Adopted: 2021

STRAND/TOPIC

Kindergarten

STANDARD / DESCRIPTION		NUMERICAL REASONING – counting, money, place value, numbers to 20, addition, subtraction and fluency
ELEMENT	K.NR.1:	Demonstrate and explain the relationship between numbers and quantities up to 20; connect counting to cardinality (the last number counted represents the total quantity in a set).

ELEMENT/GLE	K.NR.1.1.	Count up to 20 objects in a variety of structured arrangements and up to 10 objects in a scattered arrangement.
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Elementary Mathematics Grade K v21

01.01 Count and Write 1, 2, and 3
01.03 Count and Write 4 and 5
03.01 Count and Write 6 and 7
03.03 Count and Write 8 and 9
03.05 Count, Write, and Rearrange 10
05.01 Circles and Triangles
09.01 Represent Subtraction as Taking From
10.01 Decompose and Represent 5
11.01 Count, Write, and Rearrange 11, 12, and 13
11.02 Count, Write, and Rearrange 14, 15, and 16
11.03 Count, Write, and Rearrange 17, 18, and 19
11.04 Count, Write, and Rearrange 20
11.05 Compare Numbers from 0 to 20
11.06 Count Forward and Backward from Any Number Within 20
12.01 Represent 10 and 11
12.03 Represent 14 and 15
13.01 Counting to 100 by Ones
13.03 Count from Any Number
14.01 Compare by Length and Height
14.02 Nonstandard Measurement

ELEMENT/GLE	K.NR.1.2.	When counting objects, explain that the last number counted represents the total quantity in a set (cardinality), regardless of the arrangement and order.
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Elementary Mathematics Grade K v21

01.01 Count and Write 1, 2, and 3
01.02 Rearrange Groups of 2 and 3
01.03 Count and Write 4 and 5
01.04 Rearrange Groups of 4 and 5
01.05 Identify and Write 0
02.01 Equal Groups
03.01 Count and Write 6 and 7
03.02 Rearrange Groups of 6 and 7
03.03 Count and Write 8 and 9
03.04 Rearrange Groups of 8 and 9
03.05 Count, Write, and Rearrange 10

ELEMENT/GLE	K.NR.1.3.	Given a number from 1-20, identify the number that is one more or one less.
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Elementary Mathematics Grade K v21

08.01 Represent Addition as Adding To
 08.02 Represent Addition as Putting Together
 08.03 Use the Plus Sign
 08.04 Addition Equations
 08.05 Solve Addition Real-World Problems
 08.06 Addition Fluency
 09.01 Represent Subtraction as Taking From
 09.02 Represent Subtraction as Taking Apart
 09.03 Use the Minus Sign
 09.04 Subtraction Equations
 09.05 Solve Subtraction Real-World Problems
 09.06 Subtraction Fluency
 10.05 Fluently Add and Subtract Within 10
 10.06 Addition and Subtraction Word Problems
 11.05 Compare Numbers from 0 to 20
 12.05 Represent 18 and 19
 13.01 Counting to 100 by Ones
 13.02 Count by Tens to 100
 13.03 Count from Any Number

STRAND/TOPIC

Kindergarten

STANDARD / DESCRIPTION		NUMERICAL REASONING – counting, money, place value, numbers to 20, addition, subtraction and fluency
ELEMENT	K.NR.2:	Use count sequences within 100 to count forward and backward in sequence.

ELEMENT/GLE	K.NR.2.1.	Count forward to 100 by tens and ones and backward from 20 by ones.
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Elementary Mathematics Grade K v21

04.05 Count Forward and Backward Within 10
 09.01 Represent Subtraction as Taking From
 10.01 Decompose and Represent 5
 11.01 Count, Write, and Rearrange 11, 12, and 13
 11.02 Count, Write, and Rearrange 14, 15, and 16
 11.03 Count, Write, and Rearrange 17, 18, and 19
 11.04 Count, Write, and Rearrange 20
 11.05 Compare Numbers from 0 to 20
 11.06 Count Forward and Backward from Any Number Within 20
 12.01 Represent 10 and 11
 12.03 Represent 14 and 15
 13.01 Counting to 100 by Ones
 13.02 Count by Tens to 100
 13.03 Count from Any Number
 14.01 Compare by Length and Height
 14.02 Nonstandard Measurement
 14.03 Compare by Volume

ELEMENT/GLE	K.NR.2.2.	Count forward beginning from any number within 100 and count backward from any number within 20.
<u>Elementary Mathematics Grade K v21</u> 04.05 Count Forward and Backward Within 10 09.01 Represent Subtraction as Taking From 10.01 Decompose and Represent 5 11.01 Count, Write, and Rearrange 11, 12, and 13 11.02 Count, Write, and Rearrange 14, 15, and 16 11.03 Count, Write, and Rearrange 17, 18, and 19 11.04 Count, Write, and Rearrange 20 11.05 Compare Numbers from 0 to 20 11.06 Count Forward and Backward from Any Number Within 20 12.01 Represent 10 and 11 12.03 Represent 14 and 15 13.01 Counting to 100 by Ones 13.03 Count from Any Number 14.01 Compare by Length and Height 14.02 Nonstandard Measurement		

STRAND/TOPIC Kindergarten

STANDARD / DESCRIPTION		NUMERICAL REASONING – counting, money, place value, numbers to 20, addition, subtraction and fluency
ELEMENT	K.NR.3:	Use place value understanding to compose and decompose numbers from 11–19.

ELEMENT/GLE	K.NR.3.1.	Describe numbers from 11 to 19 by composing (putting together) and decomposing (breaking apart) the numbers into ten ones and some more ones.
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Elementary Mathematics Grade K v21
 10.01 Decompose and Represent 5
 10.02 Decompose and Represent Numbers 6 and 7
 10.03 Decompose and Represent Numbers 8 and 9
 10.04 Decompose and Represent 10
 12.01 Represent 10 and 11
 12.02 Represent 12 and 13
 12.03 Represent 14 and 15
 12.04 Represent 16 and 17
 12.05 Represent 18 and 19
 12.06 Represent 20

STRAND/TOPIC Kindergarten

STANDARD / DESCRIPTION		NUMERICAL REASONING – counting, money, place value, numbers to 20, addition, subtraction and fluency
ELEMENT	K.NR.4:	Identify, write, represent, and compare numbers up to 20.

ELEMENT/GLE	K.NR.4.1.	Identify written numerals 0-20 and represent a number of objects with a written numeral 0-20 (with 0 representing a count of no objects).
<u>Elementary Mathematics Grade K v21</u> 01.01 Count and Write 1, 2, and 3 01.02 Rearrange Groups of 2 and 3 01.03 Count and Write 4 and 5 01.04 Rearrange Groups of 4 and 5 01.05 Identify and Write 0 02.03 Less Than 03.01 Count and Write 6 and 7 03.02 Rearrange Groups of 6 and 7 03.03 Count and Write 8 and 9 03.04 Rearrange Groups of 8 and 9 03.05 Count, Write, and Rearrange 10 04.03 Compare Groups to 10 by Counting 05.03 Compare and Sort 2-D Shapes 06.03 Compare and Sort 3-D Shapes 08.03 Use the Plus Sign 10.03 Decompose and Represent Numbers 8 and 9		

ELEMENT/GLE	K.NR.4.2.	Compare two sets of up to 10 objects and identify whether the number of objects in one group is more or less than the other group, using the words "greater than," "less than," or "the same as".
<u>Elementary Mathematics Grade K v21</u> 02.02 Greater Than 02.03 Less Than 02.04 Compare Groups to 5 04.02 Greater Than or Less Than Groups to 10 04.03 Compare Groups to 10 by Counting 07.03 Compare the Categories by Counting 11.05 Compare Numbers from 0 to 20		

STRAND/TOPIC

Kindergarten

STANDARD / DESCRIPTION		NUMERICAL REASONING – counting, money, place value, numbers to 20, addition, subtraction and fluency
ELEMENT	K.NR.5:	Explain the concepts of addition, subtraction, and equality and use these concepts to solve real-life problems within 10.

ELEMENT/GLE	K.NR.5.1.	Compose (put together) and decompose (break apart) numbers up to 10 using objects and drawings.
<u>Elementary Mathematics Grade K v21</u> 10.01 Decompose and Represent 5 10.02 Decompose and Represent Numbers 6 and 7 10.03 Decompose and Represent Numbers 8 and 9 10.04 Decompose and Represent 10 12.01 Represent 10 and 11 12.02 Represent 12 and 13 12.03 Represent 14 and 15 12.04 Represent 16 and 17 12.05 Represent 18 and 19 12.06 Represent 20		

ELEMENT/GLE	K.NR.5.2.	<p>Represent addition and subtraction within 10 from a given authentic situation using a variety of representations and strategies.</p> <p><u>Elementary Mathematics Grade K v21</u></p> <p>08.01 Represent Addition as Adding To 08.02 Represent Addition as Putting Together 08.03 Use the Plus Sign 08.04 Addition Equations 08.05 Solve Addition Real-World Problems 08.06 Addition Fluency 09.01 Represent Subtraction as Taking From 09.02 Represent Subtraction as Taking Apart 09.03 Use the Minus Sign 09.04 Subtraction Equations 09.05 Solve Subtraction Real-World Problems 09.06 Subtraction Fluency 10.05 Fluently Add and Subtract Within 10 10.06 Addition and Subtraction Word Problems 11.05 Compare Numbers from 0 to 20 12.05 Represent 18 and 19</p>
ELEMENT/GLE	K.NR.5.3.	<p>Use a variety of strategies to solve addition and subtraction problems within 10.</p> <p><u>Elementary Mathematics Grade K v21</u></p> <p>08.01 Represent Addition as Adding To 08.02 Represent Addition as Putting Together 08.03 Use the Plus Sign 08.04 Addition Equations 08.05 Solve Addition Real-World Problems 08.06 Addition Fluency 09.01 Represent Subtraction as Taking From 09.02 Represent Subtraction as Taking Apart 09.03 Use the Minus Sign 09.04 Subtraction Equations 09.05 Solve Subtraction Real-World Problems 09.06 Subtraction Fluency 10.05 Fluently Add and Subtract Within 10 10.06 Addition and Subtraction Word Problems 11.05 Compare Numbers from 0 to 20 12.05 Represent 18 and 19</p>
ELEMENT/GLE	K.NR.5.4.	<p>Fluently add and subtract within 5 using a variety of strategies to solve practical, mathematical problems.</p> <p><u>Elementary Mathematics Grade K v21</u></p> <p>08.01 Represent Addition as Adding To 08.02 Represent Addition as Putting Together 08.03 Use the Plus Sign 08.04 Addition Equations 08.05 Solve Addition Real-World Problems 08.06 Addition Fluency 09.01 Represent Subtraction as Taking From 09.02 Represent Subtraction as Taking Apart 09.03 Use the Minus Sign 09.04 Subtraction Equations 09.05 Solve Subtraction Real-World Problems 09.06 Subtraction Fluency 10.05 Fluently Add and Subtract Within 10 10.06 Addition and Subtraction Word Problems 11.05 Compare Numbers from 0 to 20 12.05 Represent 18 and 19</p>

STANDARD / DESCRIPTION		MEASUREMENT & DATA REASONING – attributes of objects, classifying objects
ELEMENT	K.MDR.7:	Observe, describe, and compare the physical and measurable attributes of objects and analyze graphical displays of data.

ELEMENT/GLE K.MDR.7. Directly compare, describe, and order common objects, using measurable attributes (length, height, width, or weight) and describe the difference.

Elementary Mathematics Grade K v21

14.01 Compare by Length and Height

14.04 Compare by Weight

ELEMENT/GLE K.MDR.7. Classify and sort up to ten objects into categories by an attribute; count the number of objects in each category and sort the categories by count.

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02.02 Greater Than

02.03 Less Than

02.04 Compare Groups to 5

04.02 Greater Than or Less Than Groups to 10

04.03 Compare Groups to 10 by Counting

05.03 Compare and Sort 2-D Shapes

06.03 Compare and Sort 3-D Shapes

06.05 Identify 2-D and 3-D Shapes

07.01 Sort Objects into Categories

07.02 Count Objects in Each Category

07.03 Compare the Categories by Counting

11.05 Compare Numbers from 0 to 20

STRAND/TOPIC

Kindergarten

STANDARD / DESCRIPTION		GEOMETRIC & SPATIAL REASONING – 2D and 3D shapes, relative locations, attributes
ELEMENT	K.GSR.8:	Identify, describe, and compare basic shapes encountered in the environment, and form two-dimensional shapes and three-dimensional figures.

ELEMENT/GLE K.GSR.8. Identify, sort, classify, analyze, and compare two-dimensional shapes and three-dimensional figures, in different sizes and orientations, using informal language to describe their similarities, differences, number of sides and vertices, and other attributes.

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05.01 Circles and Triangles

05.02 Squares and Rectangles

05.03 Compare and Sort 2-D Shapes

06.01 Cubes and Cones

06.02 Spheres and Cylinders

06.03 Compare and Sort 3-D Shapes

06.04 Find 3-D Shapes

06.05 Identify 2-D and 3-D Shapes

07.02 Count Objects in Each Category

ELEMENT/GLE K.GSR.8. Describe the relative location of an object using positional words.

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05.03 Compare and Sort 2-D Shapes

06.03 Compare and Sort 3-D Shapes

ELEMENT/GLE	<p>K.GSR.8. Use basic shapes to represent specific shapes found in the environment by creating models and drawings. 3.</p> <p><u>Elementary Mathematics Grade K v21</u> 05.04 Find 2-D Shapes 06.04 Find 3-D Shapes</p>
ELEMENT/GLE	<p>K.GSR.8. Use two or more basic shapes to form larger shapes. 4.</p> <p><u>Elementary Mathematics Grade K v21</u> 05.05 Composite Shapes</p>