

# Unit 2 - Number Comparison, Counting Data, and Understanding Addition

Content Area: **Mathematics**  
Course(s): **Mathematics 1, Mathematics K**  
Time Period: **November**  
Length: **10 weeks**  
Status: **Published**

## Enduring Understandings

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Compare numbers to 10

Classify and count the number of objects in each category

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

## Essential Questions

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How do I compose/ addition and decompose/ subtraction numbers 0-10?

How do I compare and order numbers?

## Content

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### Key Vocabulary

Topic 4: No new vocabulary introduced

Topic 5: category, classify, chart, tally mark

Topic 6 : in all, join, addition sentence, add, plus sign (+), equal sign (=), equation, sum

Count forward beginning from a given number within the known sequence (instead of having to begin at 1).

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

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. \*(benchmarked)

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.

Compare two numbers between 1 and 10 presented as written numerals.

Represent addition and subtraction up to 10 with objects, fingers, mental images, drawings, sounds (e.g., claps), acting out situations, verbal explanations, expressions, or equations. \*(benchmarked)

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

Demonstrate fluency for addition and subtraction within 5 (by the end of Kindergarten). \*(benchmarked)

Classify objects into given categories; count the numbers of objects in each category and sort the categories by count. \*(benchmarked)

## **Skills**

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Students will:

- count orally by ones up to 50 , beginning at any number
- identify the last number named as the number of objects counted
- identify the next number name in counting as one greater than the previous number
- count to tell the number of objects arranged in a line, rectangular array, circle, or scattered configuration.
- count to tell the number of objects when asked “how many?” questions.
- given a number from 1-20, count out that many object.
- compare the number of objects (up to 10) in two groups.
- identify whether the number of objects in one group is greater than, less than, or equal to to the number of objects in another group.
- compare numbers (up to 10) written as numerals.
- create subtraction and addition events with objects (up to 10).
- create subtraction and addition events with drawings and sounds (up to 10).
- create subtraction and addition events by acting out situations and with verbal explanations.
- use objects and drawings to represent addition and subtraction.
- add and subtract within 10.
- add within 5 with accuracy and efficiency.
- sort objects into groups.
- sort the group by count.

## Resources

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EnVision Materials for Topic 4, 5, 6 including student edition worksheets, problem solving mat, interactive math story, vocabulary cards, and center ideas which are listed in each topic

<https://www.illustrativemathematics.org>

K.CC.A.2 Start-Stop Counting

K.CC.B.4 Counting Mat

K.CC.B.5 Finding Equal Groups

K.CC.C.6 Which number is greater? Which number is less? How do you know?

K.CC.C.7 Guess the Marbles in the Bag

K.OA.A.1 Ten Frame Addition

K.OA.A.2 Dice Addition 2

K.OA.A.2 What's missing?

K.OA.A.5 Many Ways to do Addition 1

K. MD.B.3 Sort and Count I

K. MD.B.3 Sort and Count II

[Addition and Subtraction within 20 ideas and activities](#)

[Paper Plate Addition](#)

[Kindergarten Math Printables for Review/Centers](#)

[70 Math Games/Activities for the Classroom](#)

### **Technology Connection:**

Animated Glossary

Brain Pop

Brain Pop Jr

Educreations

enVisions 2.0

Google Classroom

i-Ready

ixl.com

Kahoot

Khan Academy

Learn Zillion

Math Playground

Poppet

Scholastic Study Jams

SeeSaw

ThatQuiz

XtraMath

### **IPAD APPS**

Flash to Pass

Animal Math

123 My Connect Dots Animal

Number Frames

Park Math

Geoboard

Pattern Shapes

### **Literature Connection:**

Interactive Math Stories for each Topic from Pearson 2.0

Bears at the Beach: Counting 10 - 20 by Niki Yektai

Count and See by Tana Hoban

Counting is for the Birds by Frank Mazzola, jr.

Dragon Naps by Lynne Bertrand

The Handmade Counting Book by Laura Rankin

Monster Munches by Laura Numeroff

Teeth, Tails, & Tentacles: An Animal Counting Book by Christopher Wormell

Twelve Days of Christmas by Jan Brett

Twelve Days of Kindergarten by Deborah Lee Rose

Chicka 123 by Bill Martin Jr.

How Many How Many How Many by Rick Walton  
 The Icky Bug Counting Book by Jerry Pallotta  
 Let's Count It Out, Jesse Bear by Nancy White Carlstrom  
 Monster Math by Anne Miranda  
 One Guinea Pig Is Not Enough by Kate Duke  
 One Moose, Twenty Mice by Clare Beaton  
 One...Two...Three...Sassafras! by Stuart J. Murphy  
 One Woolly Wombat by Rod Trinca and Kerry Argent  
 Twenty is too Many by Kate Duke  
 How Do Dinosaurs Count? by Jane Yolen and Mark Teague  
 Count! by Denise Fleming  
 Counting Crocodiles by Judy Sierra  
 Counting Kisses by Karen Katz  
 How Many Kisses Good Night? by Jean Monrad Thomas  
 One Big Building by Michael Dahl  
 123 A Child's First Counting Book by Alison Jay

Pizza Counting by Christina Dobson  
 Ten Little Ladybugs by Melanie Gerth  
 How Many Snails? by Paul Giganti, Jr.  
 How Many? by Ron Van Der Meer  
 The Mitten by Jan Brett  
 Eye Count by Linda Bourke  
 The Mission of Addition By Brian P. Cleary

## Standards

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MA.K-12.1	Make sense of problems and persevere in solving them.
MA.K-12.2	Reason abstractly and quantitatively.
MA.K.CC.A.2	Count forward beginning from a given number within the known sequence (instead of having to begin at 1).
MA.K-12.3	Construct viable arguments and critique the reasoning of others.
MA.K-12.4	Model with mathematics.
MA.K-12.5	Use appropriate tools strategically.
MA.K.CC.B.4c	Understand that each successive number name refers to a quantity that is one larger.
MA.K-12.6	Attend to precision.
MA.K.CC.B.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.

MA.K-12.7	Look for and make use of structure.
MA.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.
MA.K-12.8	Look for and express regularity in repeated reasoning.
MA.K.CC.C.7	Compare two numbers between 1 and 10 presented as written numerals.
MA.K.OA.A.1	Represent addition and subtraction up to 10 with objects, fingers, mental images, drawings, sounds (e.g., claps), acting out situations, verbal explanations, expressions, or equations.
MA.K.OA.A.2	Solve addition and subtraction word problems, and add and subtract within 10, e.g., by using objects or drawings to represent the problem.
MA.K.OA.A.5	Demonstrate fluency for addition and subtraction within 5.
MA.K.MD.B.3	Classify objects into given categories; count the numbers of objects in each category and sort the categories by count.