

K Math Unit 07: Understand Subtraction

Content Area: **Mathematics**
Course(s):
Time Period: **Marking Period 2**
Length: **9 days**
Status: **Published**

Unit Overview

Understand Subtraction

The focus of this unit is:

- to use objects, drawings and objects to represent subtraction stories, to take apart a group of objects and taking one part from a larger group
- to use objects and drawings to create their own subtraction stories
- to draw upon knowledge of decomposing numbers as they represent subtraction stories
- to gradually move from using words such as 'take away' and 'is' to use the minus and equal signs
- to learn that an equation can represent a subtraction story

What Students Are Learning

- Students represent and solve subtraction problems within 10
- Students represent and solve subtraction word problems using objects, drawings, and equations
- Students solve addition and subtraction word problems within 10
- Students develop an understanding of subtraction as taking apart and taking from

Number Routines

- What Did You See?
- The Counting Path
- Break Apart
- Notice and Wonder
- Notice and Wonder: Tell me everything you can
- Notice and Wonder: How are they the same? How are they different?

Standards

MATH.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.
MATH.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.

Materials

Core Materials:

Reveal Math

- 7.1 Represent Take Apart Problems
- 7.2 Represent and Solve Take From Problems
- 7.3 Represent and Solve More Take From Problems
- 7.4 Represent and Solve Subtraction Problems
- 7.5 Represent and Solve Addition and Subtraction Problems

Supplemental Materials:

- [ST Math](#)
- [Happy Numbers](#)
- [3 Act Lessons](#)
- [Building Fact Fluency Kit](#)
- [Brainiaccamp Manipulatives](#)
- [Nearpod Lessons](#)
- [Brainpop Resources](#)
- [Online Resources](#)

Technology

CS.K-2.8.1.2.AP.1	Model daily processes by creating and following algorithms to complete tasks.
CS.K-2.8.1.2.AP.2	Model the way programs store and manipulate data by using numbers or other symbols to represent information.
CS.K-2.8.1.2.AP.4	Break down a task into a sequence of steps.
CS.K-2.8.1.2.DA.1	Collect and present data, including climate change data, in various visual formats.
CS.K-2.8.1.2.DA.4	Make predictions based on data using charts or graphs.
CS.K-2.8.2.2.ED.2	Collaborate to solve a simple problem, or to illustrate how to build a product using the design process.

Assessment

Formative Assessment

- Unit Readiness Diagnostics
- Lesson Checks
- Exit Tickets
- Teacher Observation

Summative Assessment

- Unit Assessment Performance Task
- Benchmark Tests
- Alternative Assessments: Performance Tasks & Projects

Accommodations & Modifications

Special Education

Differentiated Instruction			
Accommodate Based on Students' Individual Needs: Strategies			
<p>Time/General</p> <ul style="list-style-type: none"> • Extra time for assigned tasks • Adjust length of assignment • Timeline with due dates for reports and projects • Communication system between home and school • Provide lecture notes/outline 	<p>Processing</p> <ul style="list-style-type: none"> • Extra response time • Have students verbalize steps • Repeat, clarify, or reword directions • Mini-breaks between tasks • Provide a warning for transitions • Reading partners 	<p>Comprehension</p> <ul style="list-style-type: none"> • Precise step-by-step directions • Short manageable tasks • Brief and concrete directions • Provide immediate feedback • Small group instruction • Emphasize multi-sensory learning 	<p>Recall</p> <ul style="list-style-type: none"> • Teacher-made checklist • Use visual graphic organizers • Reference resources to promote independence • Visual and verbal reminders • Graphic organizers
<p>Assistive Technology</p> <ul style="list-style-type: none"> • Computer/whiteboard • Tape recorder • Spell-checker • Audio-taped books 	<p>Tests/Quizzes/Grading</p> <ul style="list-style-type: none"> • Extended time • Study guides • Focused/chunked tests • Read directions aloud 	<p>Behavior/Attention</p> <ul style="list-style-type: none"> • Consistent daily structured routine • Simple and clear classroom rules • Frequent 	<p>Organization</p> <ul style="list-style-type: none"> • Individual daily planner • Display a written agenda • Note-taking assistance • Color code materials

		feedback	
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504

- In class/pull out support with special ed teacher Additional time during intervention time
- Preferred seating
- Questions read aloud
- Extended time for completing tasks Graphic organizers
- Vocabulary support Mnemonic devices
- Songs/videos to reinforce concepts Limit number of questions
- Scribe Manipulatives Calculators Reteach pages Leveled homework
- Lesson intervention activities
- Math Diagnosis & Intervention System Another look homework video
- Practice buddy

ELL

- Translation device/dictionary
- In class/pull out support with ESL teacher
- Preferred seating
- Questions read aloud
- Extended time for completing tasks
- Graphic organizers
- Vocabulary support
- Mnemonic devices
- Songs/videos to reinforce concepts
- Manipulatives

At-risk of Failure

- Additional support during intervention time
- Questions read aloud
- Graphic organizers
- Vocabulary support
- Mnemonic devices
- Songs/videos to reinforce concepts
- Manipulatives
- Calculators
- Reteach pages
- Leveled homework
- Lesson intervention activities

Gifted & Talented

- Independent projects
- [Open middle](#)

- Websketch explorations
- Stem projects
- Enrichment pages
- Online games
- Leveled Homework
- Extension Activities

Interdisciplinary Connections

ELA:

RI.2.10. Read and comprehend informational texts, including history/social studies, science, and technical texts, at grade level text complexity proficiently with scaffolding as needed.

Science:

K-2-ETS1-2. Develop a simple sketch, drawing, or physical model to illustrate how the shape of an object helps it function as needed to solve a given problem.

Climate Change:

Students may use counters when adding to find the total number of trees that they and a partner observed (e.g., from their front door, in a back yard, from a classroom window). With prompting and support, they may ask and answer questions about how trees may reduce the warming effect of sunlight.

Career Readiness, Life Literacies & Key Skills

Creativity and Innovation: Brainstorming can create new, innovative ideas.

- 9.4.2.CI.1: Demonstrate openness to new ideas and perspectives (e.g., 1.1.2.CR1a, 2.1.2.EH.1, 6.1.2.CivicsCM.2).

Example: Students will share ideas of multiple strategies and draw models to illustrate the solution path they utilize to solve the word problem.

Critical Thinking and Problem-Solving: Critical thinkers must first identify a problem then develop a plan to address it to effectively solve the

problem.

- 9.4.2.CT.2: Identify possible approaches and resources to execute a plan (e.g., 1.2.2.CR1b, 8.2.2.ED.3).

Example: Students will work in small groups and collaborate to identify possible solutions paths to word problems, utilizing the strategies they have learned to solve addition and subtraction operations, such as place value charts, number lines, hundred charts, ten frames, etc. that could best illustrate the solution to the problem.

Digital Citizenship: Individuals should practice safe behaviors when using the Internet.

- 9.4.2.DC.3: Explain how to be safe online and follow safe practices when using the Internet (e.g., 8.1.2.NI.3, 8.1.2.NI.4).

Example: Students will model appropriate use of all digital platforms and share examples of their work that exhibit proper use of various platforms.

Interaction of Technology and Humans: Technology has changed the way people live and work. Various tools can improve daily tasks and quality of life.

- 8.2.2.ITH.3: Identify how technology impacts or improves life.

Example: Students will track their progress using Imagine Math or other math programs often utilized in class. Students will discuss the pros and cons of using the program with the teacher.

Career Ready Practices

STEM Career: Animal Trainer- Students talk about the work of animal trainers.

- CRP1. Act as a responsible and contributing citizen and employee.
- CRP2. Apply appropriate academic and technical skills.
- CRP4. Communicate clearly and effectively and with reason.
- CRP8. Utilize critical thinking to make sense of problems and persevere in solving them.
- CRP12. Work productively in teams while using cultural global competence.