

Sept. Gr.2 Unit 1 Addition,Subtraction

Content Area: **Math**
Course(s):
Time Period: **September**
Length: **4 Weeks**
Status: **Obsolete**

Unit Overview

This unit covers applying addition and subtraction concepts.

Enduring Understandings

There are multiple strategies to use when adding and subtracting.

Essential Questions

What addition and subtraction concepts help me to understand math?

Instructional Strategies & Learning Activities

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Lesson	Objective	Material & Manipulatives	Vocabulary	Standard
Lesson 1 <i>pp. 11-16</i> Addition Properties	Use the Commutative Property and the Identity Property to find sums.	• two-color counters • paper • crayons or markers • red and green connecting cubes	add addend sum	2.OA.1 2.OA.2 2.NBT.5 2.NBT.9 Major Cluster MP 1, 2, 3, 5, 6, 7
Lesson 2 <i>pp. 17-22</i> Count On to Add	Use a number line to count on when adding.	• construction paper • Work Mat 3 • crayons or markers • number line	count on	2.OA.1 2.OA.2 Major Cluster MP

Lesson 3 <i>pp. 23-28</i> Doubles and Near Doubles	Use doubles and near doubles to find sums.	<ul style="list-style-type: none"> • number cubes • connecting cubes 	doubles near doubles	1, 2, 3, 4, 5, 6 2.OA.1 2.OA.2 Major Cluster MP 2, 3, 4, 5, 6 2.OA.1 2.OA.2 Major Cluster MP 1, 2, 4, 5, 6 2.OA.1 2.OA.2 Major Cluster MP 1, 2, 3, 4, 5, 6, 8 2.OA.1 2.OA.2 Major Cluster MP 1, 2, 3, 5, 7
Lesson 4 <i>pp. 29-34</i> Make a 10	Make a 10 to solve addition problems.	<ul style="list-style-type: none"> • number cards (0-9) • two-color counters • cups • Work Mat 2 		Major Cluster MP 1, 2, 3, 4, 5, 6 2.OA.1 2.OA.2 Major Cluster MP 1, 2, 4, 5, 6 2.OA.1 2.OA.2 Major Cluster MP 1, 2, 3, 4, 5, 6, 8 2.OA.1 2.OA.2 Major Cluster MP 1, 2, 3, 5, 7
Lesson 5 <i>pp. 35-40</i> Add Three Numbers	Group addends differently to make the same sum.	<ul style="list-style-type: none"> • number lines • two-color counters • number cubes • connecting cubes 		Major Cluster MP 1, 2, 3, 4, 5, 6, 8 2.OA.1 2.OA.2 Major Cluster MP 1, 2, 3, 5, 7
Lesson 6 <i>pp. 41-46</i> Problem-Solving Strategy: Write a Number Sentence	Write a number sentence to solve problems.	<ul style="list-style-type: none"> • yellow and red connecting cubes 		Major Cluster MP 1, 2, 3, 5, 7
Check My Progress Lesson 7 <i>pp. 49-54</i> Count Back to Subtract	Count back to find the difference (using a number line).	<ul style="list-style-type: none"> • construction paper • crayons or markers 	count back subtract difference	2.OA.1 2.OA.2 Major Cluster MP 1, 3, 4, 5, 6 2.OA.1 2.OA.2 2.NBT.9 Major Cluster MP 2, 3, 6, 8
Lesson 8 <i>pp. 55-60</i> Subtract All and Subtract Zero	Subtract all or zero to find the difference.	<ul style="list-style-type: none"> • two-color counters • crayons or markers 		Major Cluster MP 2, 3, 6, 8

Lesson 9 <i>pp. 61-66</i> Use Doubles to Subtract	Use doubles facts to find the difference.	• connecting cubes		2.OA.1 2.OA.2 Major Cluster MP 2, 4, 5, 6
Check My Progress Lesson 10 <i>pp. 69-74</i> Relate Addition and Subtraction	Use addition facts to subtract.	• two-color counters	related facts	2.OA.1 2.OA.2 Major Cluster MP 1, 2, 4, 6
Lesson 11 <i>pp. 75-80</i> Missing Addends	Use subtraction facts to help find missing addends.	• pan balance • connecting cubes	missing addend	2.OA.1 2.OA.2 Major Cluster MP 2, 3, 4, 5, 6
Lesson 12 <i>pp. 81-86</i> Fact Families	Use related facts to write fact families.	• number cubes • connecting cubes	fact family	2.OA.1 2.OA.2 2.NBT.9 Major Cluster MP 1, 2, 3, 4, 6, 7, 8
Lesson 13 <i>pp. 87-92</i> Two-Step Word Problems	Solve word problems that involve two steps.	• two-color counters • connecting cubes		2.OA.1 2.OA.2 2.NBT.9 Major Cluster MP 1, 2, 3, 4, 5
Fluency Practice My Review and Reflect				

Integration of Career Readiness, Life Literacies and Key Skills

WRK.9.1.2.CAP.1	Make a list of different types of jobs and describe the skills associated with each job.
TECH.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).
TECH.9.4.2.CI.2	Demonstrate originality and inventiveness in work (e.g., 1.3A.2CR1a).
TECH.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).
TECH.9.4.2.CT.3	Use a variety of types of thinking to solve problems (e.g., inductive, deductive).
TECH.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).
TECH.9.4.2.DC.4	Compare information that should be kept private to information that might be made public. Different types of jobs require different knowledge and skills. Brainstorming can create new, innovative ideas. Critical thinkers must first identify a problem then develop a plan to address it to effectively solve the problem. Individuals should practice safe behaviors when using the Internet.

Technology and Design Integration

Students will interact with the SmartBoard, Ipads, chromebooks and document camera.

CS.K-2.8.1.2.CS.1	Select and operate computing devices that perform a variety of tasks accurately and quickly based on user needs and preferences. Individuals use computing devices to perform a variety of tasks accurately and quickly. Computing devices interpret and follow the instructions they are given literally.
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Interdisciplinary Connections

LA.RI.2.4	Determine the meaning of words and phrases in a text relevant to a grade 2 topic or subject area.
LA.RF.2.3	Know and apply grade-level phonics and word analysis skills in decoding words.

Differentiation

Each My Math unit throughout the series offers "approaching level", "on level" and "Beyond level" differentiated instructional hands-on choices, as well as ELL differentiated support. Please refer to the teacher edition for the activities.

Modifications & Accommodations

IEP and 504 accommodations will be utilized.

Benchmark Assessments

AIMSweb

Formative Assessments

Teacher observation

Student conferences

Discussion

Activities

games

homework

white board

Summative Assessments

My Math chapter assessments

Instructional Materials

Embedded in lesson plans above.

Standards

MA.K-12.1

Make sense of problems and persevere in solving them.

MA.2.OA.A.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, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.

MA.K-12.2

Reason abstractly and quantitatively.

MA.K-12.3

Construct viable arguments and critique the reasoning of others.

MA.2.OA.B.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.

MA.K-12.4

Model with mathematics.

MA.K-12.5

Use appropriate tools strategically.

MA.K-12.6

Attend to precision.

MA.K-12.7

Look for and make use of structure.

MA.K-12.8

Look for and express regularity in repeated reasoning.

MA.2.NBT.B.5

Fluently add and subtract within 100 using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction.

MA.2.NBT.B.9

Explain why addition and subtraction strategies work, using place value and the properties of operations.