Pub.:Gr 4 My Math Unit 2: Add and Sub. whole numbers

Content Area:	Math
Course(s):	
Time Period:	October
Length:	4-5 Weeks
Status:	Obsolete

Unit Overview

this unit concentrates on place value and the number operations in base ten.

Enduring Understandings

We can use place value to round numbers.

Operations for addition and subtraction involve repeated claculations.

We solve word problems by writing an equation.

We use place value to describe extended number patternsin addition and subtraction.

Essential Questions

What strategies can I use to add and subtract?

Instructional Strategies & Learning Activities

Lesson	Objective	Material &Manipulatives	Vocabulary	Standard
Lesson 1 <i>pp. 61- 66</i> Addition Properties and Subtraction Rules	Use addition properties and subtraction rules to add and subtract.	• connecting cubes • index cards	Commutative Property of Addition Associative Property of Addition Identity Property of Addition unknown	4.NBT.4 Major Cluster MP 2, 3, 5, 6, 7, 8
Lesson 2 <i>pp.</i> 67- 72 Addition and Subtraction Patterns	Use patterns to solve addition and subtraction problems.	• base-ten blocks • place-value charts		4.NBT.4 4.OA.5 Major Cluster

11	Use mental math	• index cards	MP 2, 3, 7, 8 4.NBT.4	
78 Add and Subtract Mentally	to add and subtract.			Major Cluster
				MP 1, 2, 3, 5, 6, 7
Lesson 4 <i>pp. 79-</i> <i>84</i> Estimate Sums	Estimate sums and differences of	• number cubes • place-value chart	4.NBT.3 4.NBT.4	
and Differences	multi-digit numbers.			Major Cluster
				MP 2, 3, 4, 6
		Check My Progres	SS	
Lesson 5 <i>pp</i> . 87- 92 Add Whole	Add multi-digit whole numbers.	• base ten blocks		4.NBT.4 4.OA.3
Numbers				Major Cluster
11	Subtract multi-	• base-ten blocks • minuend subtrahend		MP 1, 2, 3, 5, 6 4.NBT.4 4.OA.3
98 Subtract Whole Numbers	digit whole numbers.	virtual base-ten blocks • centimeter grid paper		Major Cluster
Lesson 7 <i>pp. 99-</i> S	Subtract multi-	• play money • base-		MP 2, 3, 5, 6, 7, 8 4.NBT.4
104 Subtract Across Zeros	digit numbers, when some digits	ten blocks	Major Cluster	
	are zeros.			MP 1, 3, 5, 7, 8
Check My Progress				
Lesson 8 <i>pp. 107-</i> <i>112</i> Problem	Solve problems by drawing a			4.NBT.4
Solving	diagram.			Major Cluster
Investigation: Draw a Diagram				MP 1, 3, 4, 5
Lesson 9 <i>pp. 113-</i> <i>118</i> Solve Multi-	Solve multi-step word problems	• cups • counters	equation variable	4.NBT.4 4.OA.3
Step Word Problems	using addition and subtraction.			Major Cluster
1 robienis				MP 1, 2, 4, 5, 6
		Fluency Practice		
My Chapter Review				

Integration of 21st Century Themes and Career Exploration

CRP.K-12.CRP2	Apply appropriate academic and technical skills.
CRP.K-12.CRP4	Communicate clearly and effectively and with reason.
CRP.K-12.CRP8	Utilize critical thinking to make sense of problems and persevere in solving them.
CRP.K-12.CRP12	Work productively in teams while using cultural global competence.

Technology Integration

- SMARTboard technology
- Google Applications (documents, forms, spreadsheets, presentation)
- Dreambox
- Online textbook

TECH.8.1.5.A	Technology Operations and Concepts: Students demonstrate a sound understanding of technology concepts, systems and operations.
TECH.8.1.5.A.1	Select and use the appropriate digital tools and resources to accomplish a variety of tasks including solving problems.
TECH.8.1.5.A.CS1	Understand and use technology systems
TECH.8.1.5.A.CS2	Select and use applications effectively and productively.
TECH.8.1.5.D.3	Demonstrate an understanding of the need to practice cyber safety, cyber security, and cyber ethics when using technologies and social media.

Interdisciplinary Connections Leveled readers "Oceans into the Deep"

LA.RI.4.1	Refer to details and examples in a text and make relevant connections when explaining what the text says explicitly and when drawing inferences from the text.
LA.RI.4.4	Determine the meaning of general academic and domain-specific words or phrases in a text relevant to a grade 4 topic or subject area.
LA.SL.4.1	Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 4 topics and texts, building on others' ideas and expressing their own clearly.

Differentiation

-Reteach Master

-Hands-On Activity

-Enrich Master

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Modifications & Accommodations	
IEP and 504 accommodations will be utilized.	
Provide an outline of material to be covered	
-Individualized assignments, e.g., length, number, due date, topic	
-Allow student to use technology-online textbook	
-Use of graphic organizers	
-Use highlighter for key information	
-Read directions, passages, and word problems aloud as needed-online presentation	
-Use of calculator and matrix for multiplication and division	
-Provide textbook in audio format	

Benchmark Assessments

-Demonstrate directions and procedures/give examples

- Diagnostic
- Aimsweb
- End of year test

Formative Assessments

Check My Progress

-My Chapter Review

-Homework Practice

-Independent Practice

Instructional Materials

See materials above.

Standards

MATH.4.OA.A.3	Solve multi-step word problems posed with whole numbers and having whole-number answers using the four operations, including problems in which remainders must be interpreted. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.
MATH.4.OA.C.5	Generate a number or shape pattern that follows a given rule. Identify apparent features of the pattern that were not explicit in the rule itself.
MATH.4.NBT.A.3	Use place value understanding to round multi-digit whole numbers to any place.
MATH.4.NBT.B.4	With accuracy and efficiency, add and subtract multi-digit whole numbers using the standard algorithm.