# Pub.:Gr 4 My Math Unit 2: Add and Sub. whole numbers <br> Content Area: Math <br> Course(s): <br> Time Period: Length: Status: <br> October 4-5 Weeks 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 pp. 61- | Use addition | - connecting cubes $\cdot$ index cards | Commutative Property of Addition Associative Property of Addition Identity Property of Addition unknown | 4.NBT. 4 |
| Properties and | properties and subtraction rules |  |  | Major Cluster |
| Subtraction Rules | to add and |  |  |  |
|  | subtract. |  |  | $\begin{aligned} & \text { MP 2, 3, 5, 6, 7, } \\ & 8 \end{aligned}$ |
| Lesson 2 pp. 67- | Use patterns to | - base-ten blocks - |  | 4.NBT. 4 4.OA. 5 |
| 72 Addition and | solve addition | place-value charts |  |  |
| Subtraction | and subtraction |  |  | Major Cluster |
| Patterns | problems. |  |  |  |


| Lesson 3 pp. 73- <br> 78 Add and <br> Subtract Mentally | Use mental math to add and subtract. | - index cards |  | MP 2, 3, 7, 8 <br> 4.NBT. 4 <br> Major Cluster |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |
|  |  |  |  |  |
| Lesson 4 pp. 7984 Estimate Sums and Differences | Estimate sums • number cubes • and differences of place-value chart multi-digit numbers. |  |  | $\begin{aligned} & \text { MP } \mathbf{7}, \mathbf{2 , 3 , 5 , 6}, \\ & \hline \end{aligned}$ |
|  |  |  |  | 4.NBT. 3 |
|  |  |  |  | 4.NBT. 4 |
|  |  |  |  | Major Cluster |
|  |  |  |  | MP 2, 3, 4, 6 |
| Check My Progress |  |  |  |  |
| Lesson 5 pp. 87 92 Add Whole Numbers | Add multi-digit whole numbers. | - base ten blocks |  | 4.NBT. 4 4.OA. 3 |
|  |  |  |  | Major Cluster |
|  |  |  |  | MP 1, 2, 3, 5, 6 |
| Lesson 6 pp. 9398 Subtract Whole Numbers | Subtract multidigit whole numbers. | - base-ten blocks virtual base-ten blocks - centimeter grid paper | minuend subtrahend | 4.NBT. 4 4.OA. 3 |
|  |  |  |  | Major Cluster |
|  |  |  |  | $\begin{aligned} & \text { MP 2, 3, 5, 6, 7, } \\ & 8 \end{aligned}$ |
| Lesson 7 pp. 99104 Subtract Across Zeros | Subtract multidigit numbers, when some digits are zeros. | - play money • baseten blocks |  | 4.NBT. 4 |
|  |  |  |  | Major Cluster |
|  |  |  |  | MP 1, 3, 5, 7, 8 |
| Check My Progress |  |  |  |  |
| Lesson 8 pp. 107- |  | Solve problems |  |  | 4.NBT. 4 |
| 112 Problem | by drawing a |  |  |  |
| Solving | diagram. |  |  | Major Cluster |
| Investigation: Draw a Diagram |  |  |  | MP 1, 3, 4, 5 |
| Lesson 9 pp. 113118 Solve MultiStep Word Problems | Solve multi-step word problems using addition and subtraction. | - cups • counters | equation variable | 4.NBT. 4 4.OA. 3 |
|  |  |  |  |  |
|  |  |  |  | Major Cluster |
|  |  |  |  | MP 1, 2, 4, 5, 6 |
|  |  | Fluency Practice |  |  |
|  |  | My Chapter Review |  |  |

## Integration of 21st Century Themes and Career Exploration

Apply appropriate academic and technical skills.
Communicate clearly and effectively and with reason.
Utilize critical thinking to make sense of problems and persevere in solving them.
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

TECH.8.1.5.A. 1

TECH.8.1.5.A.CS1
TECH.8.1.5.A.CS2
TECH.8.1.5.D. 3

Technology Operations and Concepts: Students demonstrate a sound understanding of technology concepts, systems and operations.

Select and use the appropriate digital tools and resources to accomplish a variety of tasks including solving problems.

Understand and use technology systems
Select and use applications effectively and productively.
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

LA.RI.4.4

LA.SL.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.

Determine the meaning of general academic and domain-specific words or phrases in a text relevant to a grade 4 topic or subject area.

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

## 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
-Demonstrate directions and procedures/give examples

## Benchmark Assessments

- Diagnostic
- Aimsweb
- End of year test


## Formative Assessments

Check My Progress
-My Chapter Review
-Homework Practice
-Independent Practice

## Summative Assessments

## Instructional Materials

See materials above.

## Standards

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

