

Gr 4 Sept. My Math Unit 1: Place Value

Content Area: **Math**
Course(s):
Time Period: **September**
Length: **2-3 Weeks**
Status: **Obsolete**

Unit Overview

Students will learn about the function and purpose of place value.

Enduring Understandings

- Our number system is based on groups of ten. Whenever we get 10 in one place value, we move to the next greater place value.
- In a multi-digit whole number, a digit in one place represents ten times what it would represent in the place immediately to its right.
- Place value can be used to compare and order numbers.
- Rounding whole numbers is a process for finding the multiple of 10, 100, and so on closest to a given number.

Essential Questions

How does place value help represent the value of numbers?

Instructional Strategies & Learning Activities

Pacing Guide

Suggested Pacing

| | |
|-------------------|--------|
| Instruction | 7 days |
| Review/Assessment | 2 days |
| Total* | 9 days |

*Includes additional time for remediation and differentiation.

Lesson

Objective

Material &

Vocabulary

Standards

| | Manipulatives | | d |
|--|--|--|--|
| Lesson 1 <i>pp. 11-16</i> Place Value | Identify the place value of digits in multi-digit numbers. | • base-ten blocks digit place value | 4.NBT.1 Major Cluster MP 2, 4, 6, 7 |
| Lesson 2 <i>pp. 17-22</i> Read and Write Multi-Digit Numbers | Read and write multi-digit whole numbers. | • base-ten blocks expanded form period standard form word form | 4.NBT.2 Major Cluster MP 1, 2, 3, 6, 7 |
| Lesson 3 <i>pp. 23-28</i> Compare Numbers | Compare numbers using a number line and a place-value chart. | • base-ten blocks is equal to (=) is greater than (>) is less than (<) number line | 4.NBT.2 Major Cluster MP 1, 2, 3, 5, 6, 7 |
| Lesson 4 <i>pp. 29-34</i> Order Numbers | Order numbers by using a place-value chart and comparing the digit values. | • index cards with 4-digit numbers from 1,000 to 6,000 on them | 4.NBT.2 Major Cluster MP 1, 2, 3, 4, 6, 7 |
| Check My Progress | | | |
| Lesson 5 <i>pp. 37-42</i> Use Place Value to Round | Estimate numbers by rounding. | • index cards | 4.NBT.3 Major Cluster MP 2, 3, 4, 5, 6 |
| Lesson 6 <i>pp. 43-48</i> Problem-Solving Investigation: Use the Four-Step Plan | Use the four-step plan to solve problems. | | 4.NBT.2 4.NBT.3 Major Cluster MP 1, 3, 5, 6, 7 |

My Chapter Review

Chapter 1 Targeted Strategic Intervention



Integration of Career Readiness, Life Literacies and Key Skills

MP2 Reason abstractly and quantitatively.

MP4 Model with Mathematics.

MP6 Attend to Precision

MP7 Look for and make use of structure.

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|-----------------|--|
| WRK.9.2.5.CAP | Career Awareness and Planning |
| WRK.9.2.5.CAP.1 | Evaluate personal likes and dislikes and identify careers that might be suited to personal likes. |
| WRK.9.2.5.CAP.2 | Identify how you might like to earn an income. |
| WRK.9.2.5.CAP.3 | Identify qualifications needed to pursue traditional and non-traditional careers and occupations. |
| WRK.9.2.5.CAP.4 | Explain the reasons why some jobs and careers require specific training, skills, and certification (e.g., life guards, child care, medicine, education) and examples of these requirements. |
| TECH.9.4.8.CT | Critical Thinking and Problem-solving |
| TECH.9.4.8.DC.5 | Manage digital identity and practice positive online behavior to avoid inappropriate forms of self-disclosure. An individual's passions, aptitude and skills can affect his/her employment and earning potential. Multiple solutions often exist to solve a problem. An essential aspect of problem solving is being able to self-reflect on why possible solutions for solving problems were or were not successful. |

Technology and Design Integration

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

| | |
|-------------------|--|
| CS.3-5.8.1.5.DA.3 | Organize and present collected data visually to communicate insights gained from |
|-------------------|--|

CS.3-5.DA

different views of the data.

Data & Analysis

Individuals can select, organize, and transform data into different visual representations and communicate insights gained from the data.

Interdisciplinary Connections

Real World Problem Solving “Rivers and Mountains of the United States”

| | |
|-------------|--|
| 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.RI.4.7 | Interpret information presented visually, orally, or quantitatively (e.g., in charts, graphs, diagrams, time lines, animations, or interactive elements on Web pages) and explain how the information contributes to an understanding of the text in which it appears. |
| LA.RF.4.3 | Know and apply grade-level phonics and word analysis skills in decoding and encoding words. |
| LA.RF.4.4.A | Read grade-level text with purpose and understanding. |

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

-Chapter 1 Assessment

Instructional Materials

Base-ten blocks

Index Cards

Online Text

Textbook

Standards

| | |
|----------------|---|
| MATH.4.NBT.A | Generalize place value understanding for multi-digit whole numbers |
| MATH.4.NBT.A.2 | Read and write multi-digit whole numbers using base-ten numerals, number names, and expanded form. Compare two multi-digit numbers based on meanings of the digits in each place, using $>$, $=$, and $<$ symbols to record the results of comparisons. |
| MATH.4.NBT.A.3 | Use place value understanding to round multi-digit whole numbers to any place. |