

Gr 4 Sept. My Math Unit 1: Place Value

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

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 &
Manipulatives**

Vocabulary

Standard

| | | | |
|---|---|---|--|
| Lesson 1 <i>pp. 11-16</i> Place Value | Identify the place value of • base-ten blocks digits in multi-digit numbers. | 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 • base-ten blocks whole numbers. | 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 • base-ten blocks number line and a place-value chart. | 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 • index cards with 4-place-value chart and comparing the digit values. | 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 • index cards rounding. | | 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



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.

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

Technology and Design Integration

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

| | |
|-------------------|--|
| CS.3-5.DA | Data & Analysis |
| CS.3-5.8.1.5.DA.3 | Organize and present collected data visually to communicate insights gained from |

different views of the data.

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.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. |
| 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.4.1 | 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.4.7 | 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. |

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

MA.4.NBT.A.1

Recognize that in a multi-digit whole number, a digit in one place represents ten times

what it represents in the place to its right.

MA.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.

MA.4.NBT.A.3

Use place value understanding to round multi-digit whole numbers to any place.

MA.4.NBT.A

Generalize place value understanding for multi-digit whole numbers.