4th Grade Math Curriculum Unit Overview

4th Grade Math

Unit 1: Place Value

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Course / Unit Basic Description

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Course Title: Fourth Grade Math	**Course Author:** Kelly Jones	**Grade Level(s):** 4th	**Time/Duration:** 11 days
Course Summary: (optional)			
Unit Name: Place Value	**Unit Number:** 1	**Created:** 2021-2022	**Revised:** TBD

Standards Addressed:

- 4.NBT.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.
- 4.NBT.2 Read and write multi-digit whole numbers using base ten numerals, number names, and expanded form.
- 4.NBT.3 Use place value understanding to round multi-digit whole numbers to any place.

Stage 1 Desired Results: Enduring Understandings & Essential Questions

What are the overarching takeaways and big ideas for students?

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Enduring Understandings/Big Ideas:

- Mathematical relationships between numbers can be compared, represented, and communicated.
- Mathematical relationships can be represented as expressions, equations, and inequalities in mathematical relationships.
- Numerical calculations, quantities, and measurements can be estimated or analyzed by using appropriate strategies and tools.

Content Standard

- 4.NBT.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.
- 4.NBT.2 Read and write multi-digit whole numbers using base ten numerals, number names, and expanded form.
- 4.NBT.3 Use place value understanding to round multi-digit whole numbers to any place.

Transfer

Students will be able to independently use their learning to use their understanding of place value to solve problems related to writing, comparing, and rounding numbers.

Meaning

UNDERSTANDINGS

Students will understand that…

1. A digit in each place represents ten times what it represents in the place to its right.
2. Multi-digit whole numbers can be written using base ten numerals, number names, and expanded form.
3. Place value can be used to round multi-digit whole numbers.

Essential Questions:

1. What is the relationship between each place value?
2. How is mathematics used to quantify, compare, represent, and model numbers?
3. Why is rounding important and how can it be used to solve problems?

Stage 1: Essential Content, Concepts & Skills

What do we want students to know and be able to do?

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Acquisition
Students will know…….
1. A digit in each place represents ten times what it represents in the place to its right.
2. Multi-digit whole numbers can be written using base ten numerals, number names, and expanded form.
3. Place value can be used to round multi-digit whole numbers.
Students will be skilled at (be able to do)…….
1. Identify a digits value and determine the relationship between digits in each place value.
2. Write multi-digit whole numbers using base 10 numerals, number names, and expanded form.
3. Round multi-digit whole numbers to any place value.

Stage 2: Assessments/Evidence of Learning

What are the formative (informal) and summative (formal) assessments used to measure learning and growth?
How will you know that they did it?

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Evaluative Criteria	Assessment Evidence
4.NBT.1 Post test 4.NBT.2 Post test 4.NBT.3 Post test	PERFORMANCE TASK(S)/Think **GRASPS:** Visiting Grand Teton National Park
Numbers and operations assessment	OTHER EVIDENCE: Participation in daily centers Plickers responses Homework assignments

Stage 3: Learning Plan

What are the differentiated instructional strategies, activities, lesson plans that support the enduring understandings and essential questions for all students?
This section provides a summary of the Key Learning Events and Instruction

Teachers may summarize the topics within lessons or may utilize Laurel UbD Lesson Plan Template

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Resources:

- My Math workbook
- Teacher-provided worksheets and practice
- IXL, Blooket, Quizizz, and other online review
- Data binders

Day 1 (NBT.1)
- Introduce/review place value- place value whiteboards
- Guided practice in math workbook
- Daily centers: reinforce place value concepts

Day 2 (NBT.1)
- Discuss the relationship between digits- place value whiteboards
- Daily centers: explore the relationship between digits

Day 3 (NBT.1)
- Review place value concepts
- NBT.1 post-test
- NBT.2 pre-test

Day 4 (NBT.2)
- Data binders: record/monitor progress
- Whole group instruction: standard, expanded, word form
- Daily centers: reinforce standard, expanded, and word form

Day 5 (NBT.2)
- Whole group review (whiteboards)
- Daily centers: review standard, expanded, and word form

Day 6 (NBT.2)
- Mini-lesson: comparing numbers using number lines
- Daily centers: compare multi-digit numbers

Day 7 (NBT.2)
- Mini-lesson: put numbers in order
- Daily centers: order numbers

Day 8 (NBT.2)
- Review concepts related to place value (standard, expanded, word form, comparing whole numbers)
- NBT.2 post-test
- NBT.3 pre-test

Day 9 (NBT.3)
- Data binders: record/monitor progress
- Mini-lesson: use a number line to round whole numbers
- Daily centers: rounding whole numbers

Day 10 (NBT.3)
- Review rounding whole numbers
- Daily centers: rounding whole numbers

Day 11 (NBT.3)
- Review rounding whole numbers
- NBT.3 post-test
- NBT.4 pre-test

- Performance task: visiting grand teton national park