**Adding and Subtracting Decimal Numbers Unit Organizer**

**4th Grade Siener/Ronen/Hersh**

**Summary**

Students learn to add and subtract decimal numbers

**The Big Idea**

Decimal numbers are used in many areas of daily life, especial the use of money and measurement. Students need to be able to add and subtract decimals accurately.

**Common Core State Standards**

**Standard: 1. Number Sense, Properties, and Operations**

Concepts and skills students master:

1. The decimal number system to hundredths place describes place value, patterns, and relationships that are repeated in large and small numbers and forms the foundation for efficient algorithms

**Students can:**

1. Generalize place value understanding for multi-digit whole numbers(CCSS: 4.NBT)
   1. Explain that in a multi-digit whole number, a digit in one place represents ten times what it represents in the place to its right. (CCSS: 4.NBT.1)
   2. Read and write multi-digit whole numbers using base-ten numerals, number names, and expanded form. (CCSS: 4.NBT.2)
   3. Compare two multi-digit numbers based on meanings of the digits in each place, using >, =, and < symbols to record the results of comparisons. (CCSS: 4.NBT.2)
   4. Use place value understanding to round multi-digit whole numbers to any place. (CCSS: 4.NBT.3)
2. Usedecimal notation to express fractions, and compare decimal fractions(CCSS: 4.NF)
3. Express a fraction with denominator 10 as an equivalent fraction with denominator 100, and use this technique to add two fractions with respective denominators 10 and 100.[[1]](#endnote-1) (CCSS: 4.NF.5)
4. Use decimal notation for fractions with denominators 10 or 100.[[2]](#endnote-2) (CCSS: 4.NF.6)

Compare two decimals to hundredths by reasoning about their size.[[3]](#endnote-3) (CCSS: 4.NF.7)

**Core Knowledge Content**

Math

II. Fractions and Decimals

1. Decimals

* Add and subtract with decimals numbers to two places

III. Money

* Solve problems involving making change in amounts up to $100.00

**Previous Unit:** Changing Fractions to Decimals

**Prior Knowledge**

* Students are able to convert fractions to decimal numbers
* Student are able to convert decimal numbers to fractions

**Next Unit**: Multiplying and Dividing Decimal Numbers

**What Students will Learn in Future Grades**

* Continuation with practice in 5th- 12th grades adding, subtracting, multiplying, and dividing decimal numbers

**Cross Curricular Links**

* Economics: Use of money
* Science: Chemistry

**Additional Resources**

Extra Practice for Mathematic 4th Grade

1. [↑](#endnote-ref-1)
2. [↑](#endnote-ref-2)
3. [↑](#endnote-ref-3)