

Title: Place Value of Decimals to Hundredths: Diving For Decimals

Brief Overview:

In order to understand decimals, students should have prior knowledge of fractions as specified in NCTM Content Standards. The student will be able to write decimals in tenths and hundredths and relate them to common fractions by using prior knowledge of dollars and cents. Students will make a quick reference place value chart and be able to correctly place a decimal number on the number line. Students will be able to read a number with decimal place value up to hundredths.

NCTM Content Standard/National Science Education Standard:

1. Understand Numbers, ways of representing numbers, relationships among numbers, and number systems.
 - Understand the place-value structure of the base-ten number system and be able to represent and compare whole numbers and decimals;
 - Explore numbers less than 0 by extending the number line and through familiar applications
2. Compute fluently and make reasonable estimates. Develop and use strategies to estimate computations involving fractions and decimals in situations relevant to students' experience.

Grade/Level:

Grades 4-5

Duration/Length:

4 days (60 minutes per day).

Student Outcomes:

- Students will be able to:
- Read decimal numbers in tenths, hundredths and thousandths.
 - Write decimals in tenths, hundredths, and thousands
 - Relate whole numbers with decimals to dollars and cents.
 - Identify fractional equivalents of decimals.
 - Create a place value chart as a quick reference tool.
 - Identify ways in which decimals appear in every day life.

Materials and Resources:

- Swimming Story – Day 1 (TR1)
- Place value chart