Unit 1 Real Numbers

Content Area: **Special Education**
Course(s):
Time Period: **September**
Length: **6 weeks**
Status: **Published**

Enduring Understandings

Numbers exist and are a regular occurrence in mathematics and the world around us.

One representation may sometimes be more helpful than another; and, used together, multiple representations give a fuller understanding of a problem.

Numeric fluency includes both the understanding of and the ability to appropriately use numbers.

Essential Questions

How can I use models, words and expanded formats to compare numbers?

How can I use fractions in real life?

How do we use ordinal numbers in everyday life?

Content

Vocabulary

Negative Numbers

Positive Numbers

Perfect Squares

Rational Numbers

Irrational Numbers

Prime Number

Scientific Notation

Square Root

Integers

Whole numbers

Natural numbers

Skills

Categorize real numbers as rational or irrational, integer, whole or natural.

Compare and order positive and negative integers.

Compare and order fractions and decimals.

Change improper fractions to mixed numbers and vice versa.

Use place value with whole numbers and decimals.

Compare and round whole numbers and decimals.

Identify perfect squares and cubes.

Evaluate the roots of perfect squares and cubes.

Use a calculator to estimate the square root and cube root of numbers and round to specified place value.

Identify prime numbers.

Resources

Standards

CCSS: Mathematics

CCSS: Grade 8

The Number System

8.NS.A. Know that there are numbers that are not rational, and approximate them by rational numbers.

8.NS.A.1. Understand informally that every number has a decimal expansion; the rational numbers are those with decimal expansions that terminate in 0s or eventually repeat. Know that other numbers are called irrational.

8.NS.A.2. Use rational approximations of irrational numbers to compare the size of irrational numbers, locate them approximately on a number line diagram, and estimate the value of expressions

Show details

MA.8.NS	The Number System
MA.8.NS.A	Know that there are numbers that are not rational, and approximate them by rational numbers.