



Number Sense 5-6 Syllabus

Course Goals

1 Comparing and Ordering

Students compare and order decimals, fractions, percents, scientific notation, and absolute value numbers using the number line as the primary anchor.

2 Build up to the Real Number System

Students learn topics set up in a logical, structured way so they can build up comprehension the Real Number System with the context of prior knowledge.

3 Accelerated Learning

Students in 5th- and 6th-grade are exposed to 8th-grade concepts and critical thinking.

Course Topics

1 Negative Numbers

Students order, add, subtract, multiply, and divide positive and negative integers using the number line reasoning.

2 Fractions

Students visualize, add, subtract, multiply, and divide fractions.

3 Decimals

Students round, multiply, and divide decimals.

4 Fractions, decimal, and percent (FDP) Conversion

Students learn to convert between fractions, decimals, and percents.

5 Benchmark Fractions

Students use benchmark fractions to order rational numbers on a number line so they can be ordered in ascending or descending order.

6 Absolute Value

Students learn the definition of absolute value and practice evaluating and comparing numbers where it's involved.

7 Powers of Ten & Negative Exponents

Students explore the powers of ten and use it as an introduction to negative exponents.

8 Scientific Notation

Students convert between scientific notation and standard form.

9 Square Roots

Students familiarize themselves with perfect squares up through 400 and their associated square roots. Students also estimate square roots to approximate the location of irrational numbers on a number line.

10 The Real Number System

Students are introduced to the irrational numbers and explore the result of operations on different sets of numbers within the real

number system.

11 Proportions

Students use proportional reasoning to find similar shape unknown sides and the solution to tax, tip, and discount problems.

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