



Number Sense 3-4 Online Syllabus

Course Goals

1 Number Sense

Students become comfortable operating on decimals using addition, subtraction, multiplication, and division. They also notice patterns within the properties of integers and decimals that can be exploited to solve problems more efficiently than always following an algorithm.

2 Comparing and Ordering

Students compare and order integers (positive and negative) using the number line as the primary scaffold.

3 Accelerated Learning

Students are exposed to concepts that are above their grade level.

Course Topics

1 Even and Odd Numbers

Students investigate the properties of even and odd integers.

2 Prime and Composite Numbers

Students investigate the properties of prime and composite numbers.

3 Place Value

Students explore place value up and use that information to round to the nearest hundred-thousands place (on the high end) and nearest thousandths place (on the low end).

4 Decimals

Students compare, add, subtract, multiply, and divide decimals using algorithms, number line reasoning, and decimal movement.

5 Fractions, Decimals, and Percents (FDP)

Students practice converting between fractions, decimals, and percents using various strategies.

6 Negative Numbers

Students are introduced to the concepts of negative numbers and then compare, add, subtract, multiply, divide, and order them using number line reasoning.

7 Long Division

Students learn long division with dividends up through the hundred thousands.

8 Order of Operations

Students are introduced to the order of operations with addition, subtraction, multiplication, division, and exponents, and grouping. An introduction to exponents is also covered.