

Our Focus: Number Theory and Mathematical Relationships

What questions will we ask ourselves?

Number Theory

- How can a number be broken down into its smallest factor?

Mathematical Relationships

- What is the relationship between patterns and functions?
- How are graphs, tables and symbols used to represent relationships?
- When are algebraic and numeric expressions used?

Why are we learning this?

Number Theory

- In order to:
 - Identify prime and composite numbers less than 100
 - Find the prime factorization of a composite number
 - Find the greatest common factor and least common multiple
 - Use divisibility rules to show relationships

Mathematical Relationships

- In order to:
 - Describe patterns and relationships
 - Write rules for functions
 - Represent functions
 - Graph points on a coordinate plane
 - Compare and order integers on a number line
 - Evaluate algebraic expressions

How will we learn these things?

Number Theory

- By exploring prime and composite numbers using divisibility rules and factorization
- By creating prime factor trees
- By identifying the greatest common factor and least common multiple in word problems

Mathematical Relationships

- By creating and analyzing functions, graphs and rules
- Graphing points on the first quadrant of the coordinate plane
- By exploring the concept of positive and negative numbers and their position on a number line
- By writing and evaluating algebraic expressions

Vocabulary Words:

- Percent
- Composite
- Greatest Common Factor
- Least Common Multiple
- Function
- Divisibility
- Prime
- Factor