

# What Will Fifth Graders Learn this Quarter in Math?

## 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	Function	Prime
Composite	Divisibility	Factor
Greatest Common Factor		
Least Common Multiple		