

Objective

By the end of this lesson, you will be able to understand and apply number system concepts and properties of numbers confidently.

Materials and Prep

- Paper
- Pencil
- Calculator (optional)

No prior knowledge is required for this lesson.

Activities

- **Number System Exploration:** Create a number line from -10 to 10 and place various numbers on it. Identify integers, fractions, and decimals.
- **Properties Game:** Write down different numbers and let's play a game to identify if they are even, odd, prime, or composite.
- **Number Puzzles:** Solve number puzzles involving factors, multiples, and divisibility rules to enhance your understanding of number properties.

Talking Points

- **Introducing Number System:** "The number system includes integers, fractions, and decimals. Let's explore how these numbers are related to each other."
- **Understanding Even and Odd Numbers:** "Even numbers can be divided by 2 without leaving a remainder, while odd numbers cannot. Can you identify which numbers are even or odd?"
- **Exploring Prime Numbers:** "Prime numbers have exactly two factors - 1 and the number itself. Can you find some examples of prime numbers?"
- **Diving into Divisibility Rules:** "Divisibility rules help us determine if a number can be divided by another number without leaving a remainder. Let's practice some divisibility rules together."