



**1. Number Sense and Operations:**

- Addition, subtraction, multiplication, and division of multi-digit numbers.
- Understanding place value up to thousands and beyond.
- Rounding numbers to the nearest ten, hundred, or thousand.

**Phet Links:**  
[Arithmetic](#)

**2. Fractions and Decimals:**

- Comparing and ordering fractions and decimals.
- Adding and subtracting fractions with common denominators.
- Converting fractions to decimals and vice versa.

**Phet Links:**  
[Build a Fraction](#)  
[Fraction Matcher](#)  
[Fractions: Intro](#)  
[Fractions: Mixed Numbers](#)  
[Area Model Decimals](#)

**LabXchange Links:**  
[Probability](#)

**3. Measurement:**

- Length, weight, capacity, and volume using standard units (e.g., centimeters, grams, liters).
- Converting between different units of measurement (e.g., meters to centimeters, kilograms to grams).

**Phet Links:**  
[Area Builder](#)

**LabXchange Links:**  
[Time, Speed & Distance](#)  
[Basic Water Facts](#)

**4. Geometry:**

- Classifying and identifying 2D shapes (e.g., polygons, quadrilaterals) and 3D shapes (e.g., prisms, pyramids).
- Understanding angles and their measurements.
- Symmetry and transformations (e.g., reflections, translations).

**Phet Links:**  
[Area Builder](#)  
[Quadrilateral](#)

**LabXchange Links:**  
[Coordinates & Equations](#)

**5. Data and Graphs:**

- Reading and interpreting more complex bar graphs, line plots, and line graphs.
- Understanding measures of central tendency (e.g., mean, median, mode).

**LabXchange Links:**  
[Introduction to Statistics](#)  
[Data Visualization](#)

**6. Patterns and Algebra:**

- Identifying, extending, and creating number patterns and sequences.
- Basic algebraic expressions and equations (e.g., solving for unknowns).

**Phet Links:**  
[Expression Exchange](#)

**LabXchange Links:**  
[Coordinates & Equations](#)  
[Probability](#)

**7. Word Problems and Real-Life Applications:**

- Multistep word problems involving all four operations.
- Applying mathematical concepts to real-life situations.

**LabXchange Links:**  
[Reasoning, Planning and Solving Problems](#)