



**1. Number Sense:**

- Addition and subtraction within 100.
- Skip counting (e.g., counting by 2s, 5s, 10s).
- Comparing and ordering numbers.
- Basic understanding of place value.

**Phet Links:**

[Arithmetic](#)  
[Number Play](#)  
[Number compare](#)  
[Make a Ten](#)

**2. Basic Operations:**

- Multiplication and division (for grade 3 students).
- Solving simple word problems involving addition, subtraction, and multiplication.

**Phet Links:**

[Area Model Multiplication](#)  
[Expression Exchange](#)

**3. Measurement:**

- Length: Comparing and measuring objects using non-standard units (e.g., paper clips, cubes) and standard units (e.g., centimeters, meters).
- Time: Reading and telling time on analog and digital clocks (hours and half-hours).

**Phet Links:**

[Area Builder](#)

**LabXchange Links:**

[Time, Speed & Distance](#)  
[Basic Water Facts](#)

**4. Geometry:**

- 2D Shapes: Identifying and describing common shapes (e.g., squares, rectangles, triangles, circles).
- 3D Shapes: Identifying and describing common solids (e.g., cubes, spheres, cylinders).

**5. Data and Graphs:**

- Reading and interpreting simple pictographs and bar graphs.

**Phet Links:**

[Equality Explorer: Basics](#)

**LabXchange Links:**

[Introduction to Statistics](#)  
[Data Visualization](#)

**6. Patterns and Sequences:**

- Recognizing and extending number patterns.

**Phet Links:**

[Number Play](#)

**7. Fractions:**

- Introduction to fractions as parts of a whole (e.g., halves and quarters) for grade 3 students.

**Phet Links:**

[Fractions: Intro](#)  
[Build a Fraction](#)  
[Fraction Matcher](#)