

Elementary STEM Activity 3

Subject: Mathematics

Topic: Measuring Our Classroom

Grade Level: 2-4

Objective:

Students will measure classroom objects and compare lengths using standard units.

Learning Outcome:

- Use a ruler or tape measure accurately.
- Record measurements with correct units (cm/in).
- Compare and order objects by length.

Materials Needed:

- Rulers or tape measures
- Recording sheet or notebook
- Pencil

Activity Steps:

1. Review how to align the ruler at zero and read the unit marks.
2. In pairs, choose 5 classroom objects (book, desk, pencil, door, whiteboard).
3. Measure each object and record the length with units.
4. Compare results: identify the longest and shortest object.
5. Create an ordered list from shortest to longest.
6. Share findings with the class and discuss measurement errors.

Recording Table:

| Object | Length | Unit | Notes |
|------------|--------|-------|-------|
| Book | | cm/in | |
| Pencil | | cm/in | |
| Desk | | cm/in | |
| Door | | cm/in | |
| Whiteboard | | cm/in | |

Discussion Questions:

- Which object was the longest?
- Why must we start at zero on the ruler?
- How can two groups get different answers?
- Where do we use measurement in real life?

Extension Activity:

Challenge students to estimate first, then measure, and calculate how close their estimate was.

Illustration:

Measurement



cm