GROUP #: **Date:**
SECTION: **SCAFFOLD 2**

MEASUREMENT OLYMPICS

Directions: The Measurement Olympics consists of 4 challenges that you need to accomplish at home. This group activity aims to challenge your skills in giving accurate and precise measurements to successfully carry out a scientific investigation.

Materials:

• Ruler or measuring tape
• Measuring cups or any container with volume markings
• Kitchen scale
• Thermometer

Challenge 1: Length Measurement
Objective: Measure the length of 3 different objects around your home.
Materials: Ruler or measuring tape.
Procedure:

- Select 3 objects of varied lengths (e.g., a book, a pencil, a table).
- Measure the length of each object.
- Record your measurements in centimeters (cm) or millimeters (mm).

Data Table:

Object	Length (cm)
1.	
2.	
3.	

Challenge 2: Volume Check
Objective: Measure the volume of 2 different containers with irregular shapes.
Materials: Measuring cups or any container with volume markings.
Procedure:

- Fill each container with water.
- Pour the water into a measuring cup to determine the volume.
- Record your measurements in milliliters (mL).

Data Table:

Container	Volume (mL)
1.	
2.	

Challenge 3: Mass Measurement
Objective: Measure the mass of 2 different objects around your home.
Materials: Kitchen scale.
Procedure:

- Select 2 objects of varied masses (e.g., an apple, a book).

- Place each object on the kitchen scale to measure its mass.
- Record your measurements in grams (g).

Data Table:

Object	Mass (g)
1.	
2.	

Challenge 4: Temperature Investigation
Objective: Measure the temperature of 3 different water samples.
Materials: Thermometer.
Procedure:

- Prepare 3 water samples at different temperatures (e.g., cold, room temperature, warm).
- Use the thermometer to measure the temperature of each water sample.
- Record your measurements in degrees Celsius (°C).

Data Table:

Water Sample	**Temperature** °C
Sample 1	
Sample 2	
Sample 3	

Reflection:
1. What did you learn about measuring different physical quantities?

2. Why is it important to use standard units when recording measurements?

3. How did this activity help you understand the process of scientific investigation?

(Please include your documentation of every experiment, put it on a separate sheet of paper.)

GROUP #: ____
GROUP MEMBERS: *(please list below your group members)*