Science 9 Lab Equipment Activity

Name: Date: Block:

Station 1: Using A Scale

- 1. What do you think a scale is used to measure?
- 2. In Canada, the SI unit grams (g) is used to measure mass. In order to change the unit on your scale to the one you want, you will need to press the 'M' or the 'Unit' button on the scale.
- 3. List all of the unit measurements that the scale can read.
- 4. Ensure that the scale displays 'g' as your unit.
- 5. Before you measure the mass of the provided object, what should your scale read?
- 6. Hit the 'tare/zero' button on your scale so that it reads 0.00 g.
- 7. Pick up the provided object and place it on the scale. The mass of the object is ______.
- 8. At times, certain chemicals in the form of a powder or a liquid require the use of a container in order to measure its mass.
- 9. To measure the mass of a powder, you must use a weigh boat to hold the powdered chemical. Place the weigh boat on the scale and hit the 'tare/zero' button so that it reads 0.00 g. Place two scoops of the chemical into the weigh boat. The mass of the chemical is ______.
- 10. Remove the weigh boat and pour the chemical back into its original container.
- 11. To measure the mass of a liquid, we will use an empty beaker to hold the liquid. Place an empty beaker onto the scale and press the 'tare/zero' button so that the scale reads 0.00 g.
- 12. Using a graduated cylinder, measure out 80.0 mL of the liquid. Pour the liquid into the empty beaker. The mass of the liquid is _______.
- 13. Remove the beaker and pour the liquid back into its original container.
- 14. Turn off the scale.





Station 2: Taking Qualitative Observations

*****Safety:** For this station, be sure that safety goggles are on AT ALL TIMES. Be sure to avoid contact with chemical solutions with eyes and all body tissues.

- 1. Put on a pair of safety goggles.
- 2. For each of the liquids in the beakers, make **2 qualitative observations**:

Liquid A	Liquid B	Liquid C
•	•	•
•	•	•

- 3. Using the **eye dropper**, place 3 5 drops of each liquid into separate test tubes. (Make sure that eye droppers are placed back in the original beaker)
- 4. Place 1 drop of Bromthymol Blue into each of the test tubes.
- 5. Write down 2 qualitative observations for each of the following reactions:

Liquid A	Liquid B	Liquid C
•	•	•
•	•	•

6. Empty the liquids in the test tubes into the sink with lots of running water. Place the test tubes upside down on a paper towel to dry.

Station 3: Taking Quantitative Observations

*****Safety:** For this station, be sure that safety goggles are on AT ALL TIMES. Be sure to avoid contact with chemical solutions with eyes and all body tissues.

- 1. Put on a pair of safety goggles.
- 2. Using a graduated cylinder, measure out EXACTLY 50.0 mL of cold water. Then pour the water into the labelled beaker.
- 3. Using a graduated cylinder, measure out EXACTLY 50.0 mL of hot water. Then pour the water into the labelled beaker.
- 4. Using the materials provided, make 3 **quantitative observations** for each liquid.

Cold Water	Hot Water
•	•
•	•
•	•

- 5. Pour the hot and cold water together into an empty beaker.
- 6. Make 2 more **quantitative observations** for the resultant mixture.



- 7. Pour out the liquids down the sink.
- 8. Remove safety goggles.

Station 4: Identifying Lab Equipment

Using the provided equipment on the table, match the equipment with the names below:

8. Graduated cylinder
9. Eyedropper
10. Safety glasses
11. Bunsen burner
12 Scoonula
12.3000pulu
13. Stir rod
14. Funnel

Identify which of the following equipment is used for each of the following scenarios:

1.	To protect your eyes.	
2.	To measure the temperature of a liquid.	
3.	For approximate measurement of a liquid.	
4.	For more accurate measurement of a liquid	
5.	To measure the mass of a substance.	
6.	To hold a test tube.	
7.	To transfer small amounts of liquid from one container to another.	
8.	To stir liquids.	
9.	To scoop solids.	
10.	To transfer liquids into a container with a small opening	