

## Classification of Matter Make Up

Name: \_\_\_\_\_

Class Period: \_\_\_\_\_

### GUIDELINES:

Access the images referenced in the calendar which show the results of each step of the activity. Use these images and your understanding of matter classification to complete the table below. Then, answer the conclusion questions.

Procedure	Qualitative observations	Classification <i>element, compound, solution, or heterogeneous mixture</i>	Change type <i>chemical or physical</i>
<b>Part 1</b>			
1. Get a piece of Zn			XXXXXXXXXXXX
2. Obtain 0.75g of CuSO <sub>4</sub>			XXXXXXXXXXXX
3. Obtain 5 mL water in a centrifuge tube			XXXXXXXXXXXX
4. Dissolve CuSO <sub>4</sub> in water			
5. Place Zn in test tube (wait 3 minutes). Empty and rinse tube			
<b>Part 2</b>			
1. Obtain 1.0g CuSO <sub>4</sub>			XXXXXXXXXXXX
2. Obtain 5 mL water in a centrifuge tube			XXXXXXXXXXXX
3. Dissolve CuSO <sub>4</sub> in water			
4. Add 5 mL Ca(NO <sub>3</sub> ) <sub>2</sub> to centrifuge tube. Shake to mix and wait 2 minutes.			
5. Spin the centrifuge test tube in a balanced centrifuge. Empty and rinse.			

Procedure	Qualitative observations	Classification <i>element, compound, solution, or heterogeneous mixture</i>	Change type <i>chemical or physical</i>
<b>Part 3</b>			
1. Obtain 1.0g NaCl			XXXXXXXXXXXX
2. Obtain 5 mL water in centrifuge tube			XXXXXXXXXXXX
3. Dissolve NaCl in water			
4. Add 5 mL AgNO <sub>3</sub> solution			
5. Spin the centrifuge tube in a balanced centrifuge			
6. Carefully pour off the liquid, retain the solid			
7. Add 5 mL ammonium hydroxide solution to centrifuge tube and shake			

Conclusions:

1. What patterns did you see in your observations relating to matter classification? Discuss 3.
2. What patterns did you see in your observations relating to physical and chemical changes? Discuss 3.
3. In the Salt & Sand Lab, you dissolved salt into water and then boiled it dry. Was boiling a chemical or a physical change? How can you tell?