

Handout

1. Draw the particles of the three different states of matter (solid, liquid, and gas).

Solid	Liquid	Gas

2. Provide an example of each state of matter discussed:

Solid: \_\_\_\_\_ Liquid: \_\_\_\_\_ Gas: \_\_\_\_\_

3. At what temperature does water turn into a solid? \_\_\_\_\_
4. At what temperature does water turn into a gas? \_\_\_\_\_
5. Based on the experiments conducted do you think all liquids turn to solid (freeze) at the same temperature? Do you think all liquids turn to gas at the same temperature? Explain.
6. Once something is a solid, does it stay that way forever? Explain.  
\*Hint: Think about the ice cream experiment and use it as an example.
7. Challenge Question: If sugar is a solid then why does it take the shape of the container it is put in? What about salt or sand?