

Name \_\_\_\_\_

Science

Date \_\_\_\_\_

States of  
Matter Review

1.) To measure the mass of an object, you should use a balance.

2.) To measure the volume of a liquid, you should use a graduated cylinder.

3.) How can you tell that an object has more mass when using a balance? The balance will tilt down, showing more mass.

4.) How can you use a graduated cylinder and some water to show that a rock has volume? You can put water in the cylinder to a certain level. Then, place the rock in the cylinder and you will see a rise in the water level. This shows that the rock has ~~mass~~ volume.

5.) What experiment can you do to show a change from a solid to a liquid?

Add heat to ~~the~~<sup>a</sup> ice cube and observe the changes. OR you can melt chocolate chips in a baggie.

6.) What experiment can you do to show a change from a liquid to a solid? You can freeze water in an ice cube tray.

7.) Name the three properties of a solid.

1. solids keep their own shape
2. solids have mass
3. solids take up space

8.) Name the three properties of a liquid.

1. liquids take the shape of their container
2. liquids have mass
3. liquids ~~take up space~~ can pour

9.) Name the three properties of a <sup>gas</sup> ~~mass~~.

1. gases spread out to fill any container
2. gases have no shape
3. gases take up space (have volume)

10.) Molecules in a solid are tightly packed  
together.

Molecules in a liquid are spread out  
slightly

Molecules in a gas are spread out  
very far.

11.) What happens to the molecules as a phase

change occurs from a liquid to a solid? the  
molecules slow down and come  
back together.