

Name _____ Date _____

States of Matter

Matter is anything that takes up space and has mass.

Use the graphic organizer below to separate the “stuff” into the three states of matter: Solids, Liquids, and Gases.

Solid	Liquid	Gas

States of Matter Vocabulary

1. Matter- Anything that takes up space and has mass
2. Solid- Matter with a definite shape and volume
3. Liquid- Matter that has a definite volume but no definite shape
4. Gas- Matter that does not have a definite shape or volume
5. Physical Change- Although some extensive properties (like shape, phase, etc.) of the material change, the material itself is the same before and after the change. The change can be “undone.”
6. Chemical Change- The substance present at the beginning of the change are not present at the end; new substances are formed. The change cannot be “undone”

Materials:

- Measuring Cup
- Root Beer
- Vanilla Ice Cream
- Ice Cream Scoop
- Plastic Cup

Procedure:

1. Have the student's measure $\frac{1}{2}$ cup of root beer and pour it into cup
2. Next add two scoops of ice cream
3. Slowly add more root beer to the cup and observe what happens
4. What is produced? Is this a physical or chemical change?