

I know I matter do you?



?

Name: KEY

# States of Matter

3 states of matter:

Solid

liquid

gas

1. You can change states using (circle one):

a. A car to drive to another state :)

b. Different temperatures

2. Molecules in a:

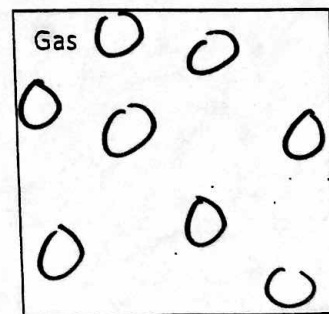
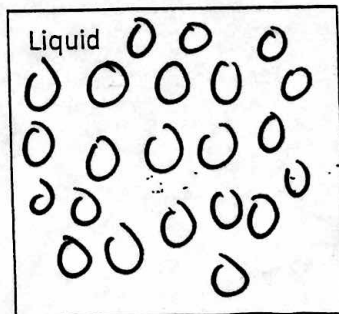
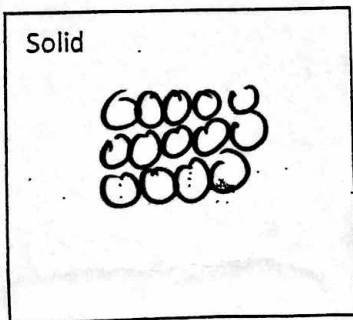
a. Solid are tightly packed

b. Liquid are farther apart

c. Gas are very far apart

3. Drawing Time! Yeah! Let's draw some MOLECULES!

a. Using the pictures in your reading, draw how the molecules are arranged in each of the following (make sure they appear different in each state of matter).



4. Solids

- a. Their molecules are in fixed positions.
- b. Solids keep their shape and don't flow/deform.
- c. Solids are hard to compress.

5. Liquids

- a. Their molecules can move around each other easily.
- b. They can change shape and flow.
- c. Liquids always keep the same volume.

6. Gases

- a. Their molecules move freely and loosely.
- b. You can easily compress a gas.

Save the following for our class discussion (view video):

7. What's the 4<sup>th</sup> State?

- a. List the 4<sup>th</sup> state: Plasma
- b. Examples include: neon signs, lightning, Plasma TV's, fluorescent lights,  
Northern lights (Aurora Borealis)

