**NOTES 8.2: Compression and Deformation**

Read page 297 in your text and answer the questions below

1. What happened to the particles of air inside the beaker as the beaker was forced deeper into the water?

2. What happened to the particles of air inside the balloon as the beaker was forced deeper into the water?

3. Why did the water move up into the beaker as the beaker was pushed deeper into the water?

* If pressure is applied to an object such as a tennis ball, its shape may change

Particles of air

* The pressure applied to the ball causes the particles of air to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* \_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a decrease in volume produced by a force

 -\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are easily compressed

 - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are incompressible (cannot be compressed)

* Why can a marshmallow be compressed?
* Examples of compressed gases:
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ means a change of shape without being forced into a smaller volume
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_ cannot be compressed but can be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ can also be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (they can change shape easily)