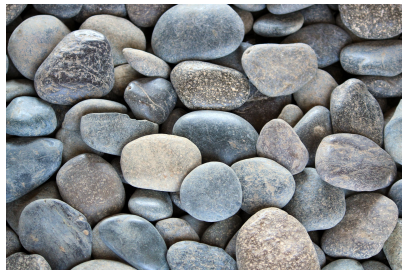


Chapter 4

Mixtures Or Pure Substances



What are some observable characteristics that can tell one material above from each other?

What are some differences in color, transparency, heaviness, hardness, strength?

After the discussion (Remove)...

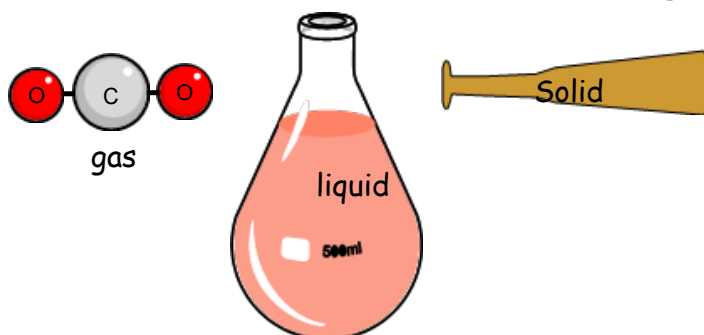
So to start we must look at what objects are made up of.

Read p. 99-103

Mixtures and Solutions

307-1

Matter: any material that takes up space and has a mass. This includes all solids, liquids and gasses.



Properties: Characteristics that are used to describe matter.



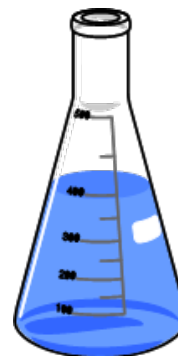
ex) Properties of water - is that it is clear, colorless, odorless, is a liquid, freezes at 0°C and boils at 100°C .

- Some materials can not be described by a single set of properties. Different materials have their own set of properties.



Mixtures

Whenever you see materials that has more than one set of properties, you know that it is a mixture.



Mixture: a material made up of several different types of materials (2 or more). In a mixture each material retains it's own properties.



Mixtures can be of the following type:

1) **Heterogeneous:** made up of parts or mixed that can be seen.



<https://www.youtube.com/watch?v=bKcGHO6b1So>



Homogenous: every part of the material is the same.

https://www.youtube.com/watch?v=-r_9QZXwT2c



<https://www.youtube.com/watch?v=veXy9PNwSSI>



Attachments

Distilling Water determining variables worksheet.doc