

Name: \_\_\_\_\_

Period: \_\_\_\_\_

## Mixtures

- **Mixtures:**

define: \_\_\_\_\_

Each substance in a mixture has the \_\_\_\_\_ chemical makeup it had before the mixture occurred

### Separating Mixtures

- \_\_\_\_\_ is the process when mixtures are separated by boiling points (saltwater)
- \_\_\_\_\_ separates mixtures based on density
- Physically by \_\_\_\_\_
- Also, using a \_\_\_\_\_ on metal and nonmetal objects
- \_\_\_\_\_ can be used to separate by size

### Ratio of Components in a Mixture

- The ratio of the components of a mixture do not need to be mixed in a \_\_\_\_\_.

### Compare Mixtures and Compounds


**Solution:** Mixture that appears to be a \_\_\_\_\_

- May be a solid (steel), liquid (soda) or gas (the atmosphere)
- Particles of two or more substances that are distributed \_\_\_\_\_ among each other

**Dissolve:** Process in which particles of substances \_\_\_\_\_ and spread \_\_\_\_\_ throughout the mixture

**Solute:** Substance that is \_\_\_\_\_

- Examples include \_\_\_\_\_ and \_\_\_\_\_

The ability to dissolve is \_\_\_\_\_.

The inability to dissolve and form a mixture is called \_\_\_\_\_.

**Solvent:** Substance in which the solute is \_\_\_\_\_. Water is the universal solvent.

**Alloys:** Solid solutions of \_\_\_\_\_ or non metals dissolved in metals.

- Bronze is Copper + Tin
- Steel is Iron + Carbon

**Particles in Solutions:**

- Never \_\_\_\_\_
- Cannot be removed by \_\_\_\_\_
- Don't scatter \_\_\_\_\_

**Concentrations:**

Measure the amount of \_\_\_\_\_ dissolved in a \_\_\_\_\_.

Units include g/mL

**Concentrated or Diluted:**

\_\_\_\_\_ contains large amounts of solute

\_\_\_\_\_ contains smaller amount of solute

**Solubility:**

The ability of the solute to dissolve in a solvent at a certain \_\_\_\_\_.

- May change with \_\_\_\_\_.

**Dissolving gases in liquids:**

- Gases are more soluble in liquids at \_\_\_\_\_ temperatures  
Soda loses its bubbles when stored in \_\_\_\_\_ places.

### Dissolving Solids faster in Liquids

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

### Compare Suspensions and Colloids

	Does the mixture appear to be a single substance? (yes or no)	Can it Scatter light? (yes or no)	Can it be filtered? (yes or no)	Can the particles settle out? (yes or no)	Examples
Suspension					
Colloid					

Homogenous is a substance that appears to be a \_\_\_\_\_ substance such as \_\_\_\_\_

Heterogeneous is a substance that appears to be \_\_\_\_\_ substances such as \_\_\_\_\_