**Matter & Separation Techniques**

**Notes Outline**

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

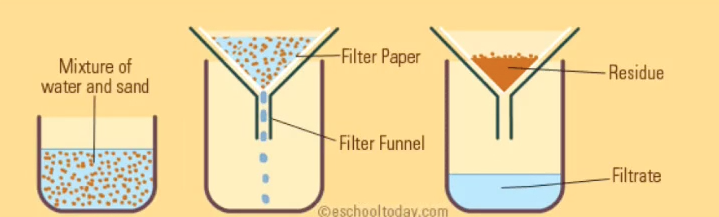
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

Examples:

**Separation Techniques**

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* Start with a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Example: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ mixed with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Label the blanks in the picture:
* the liquid that passes through the filter paper is called the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* the substance that does not pass through the filter paper is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* Water wants to travel \_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Separates \_\_\_\_\_\_\_\_\_\_\_\_\_ by allowing it to travel \_\_\_\_\_\_\_\_\_\_\_\_ the paper
* In the space provided below draw a picture of what chromatography looks like

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* Start by adding \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* We are still starting with a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Add \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ until the part of the mixture with a lower boiling point becomes a \_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Heated \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ travels down the tube until it encounters \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ water
* The gas then becomes a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and drips out the end of the tube into a new container

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* Similar to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ because \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is still being applied
* In this method a different change occurs and instead of forming a gas or a liquid a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is formed in the top dish

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* aka By \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ or Using \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Conclusion**

List the 5 Methods of Separation Below:

1.

2.

3.

4.

5.

**Properties & Changes**

**Notes Outline**

* A property is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ or characteristic that an object \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ has
* Examples:
  + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ , \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* A change means that some \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ has occurred from start to end
* A physical property is something that does \_\_\_\_\_\_\_\_\_\_\_\_\_\_ make something new.
* Examples:
* A chemical property is something that causes a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Examples:

\*\*\* Remember that properties are just the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and that no \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ has occurred yet\*\*\*

**Types of Properties**

* There are 2 types of properties: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ & \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ properties (\_\_\_\_\_\_\_)
  + The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of substance does \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ matter
  + Ex:
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ properties (\_\_\_\_\_\_\_\_)
  + The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of substance \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ matter
  + Ex:

**Properties Practice**

* Label the following as either intensive (I) or extensive (E):
* Color
* Density
* Mass
* pH
* Volume
* Flammability

**Physical & Chemical Changes**

* With a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ change NO new \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is formed
* Example:
* With a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ change a new substance \_\_\_\_\_\_\_\_\_\_\_\_ formed

- The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ point and the \_\_\_\_\_\_\_\_\_\_\_\_ point are different

* Example: