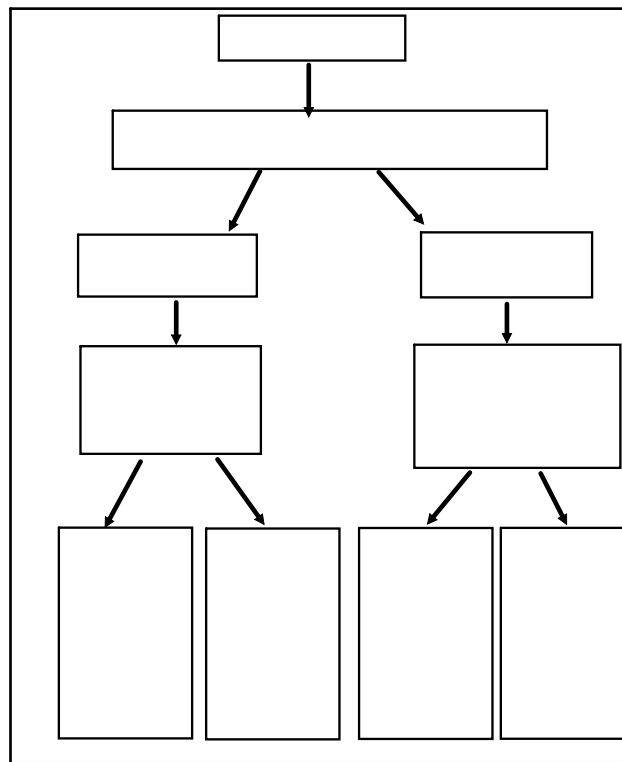


Mixtures

Phase = different materials in a mixture

Mixture = matter that contains two or more different phases

Interfaces = boundaries that separate the phases



Homogeneous or Heterogeneous

- styrofoam in water
- air
- milk
- floor tiles
- salt dissolved in water
- rock
- brass
- copper
- sand in water

Solute = the dissolved material

Solvent = the dissolving material

Pure substances (compounds or elements)

- 1) Every pure substance has exactly the same characteristic physical and chemical properties
- 2) Every sample of a given pure substance has exactly the same chemical composition

Separation Techniques

1) Distillation

- a separation technique based on two substances having different boiling points

Ex

2) Filtering

- used to separate a solid and a liquid

Ex.

3) Chromatography (2 types)

- Employs a system with two phases of matter

1. mobile phase
2. stationary phase

Types :

a) Paper Chromatography

- uses paper as the stationary phase and a liquid as the mobile phase

Ex.



b) Liquid or Gas chromatography

4) Know the physical properties of a substance

- Is it magnetic?
- does it conduct electricity?
- does it dissolve at normal temp?
- does it dissolve at a higher temp?