# Physical and Chemical Properties



## All substances have properties... Including people!

**Example:** 

People can be identified by their ...



Face (shape, expressions)	Voice	Height	Finger prints
Eye color	Hair color	Teeth	DNA

#### What are properties?

- Matter has observable and measurable qualities.
- We can use general properties to identify substances.
- Two basic types of properties of matter: Physical properties and Chemical properties:

### Physical Properties

- Physical properties are used to identify, describe and classify matter.
  - Characteristic of a substance that can be observed (using your senses) without changing the substance into something else.

Hardness	Texture	Color
Odor	Taste	Temperature

#### More EXAMPLES -Physical

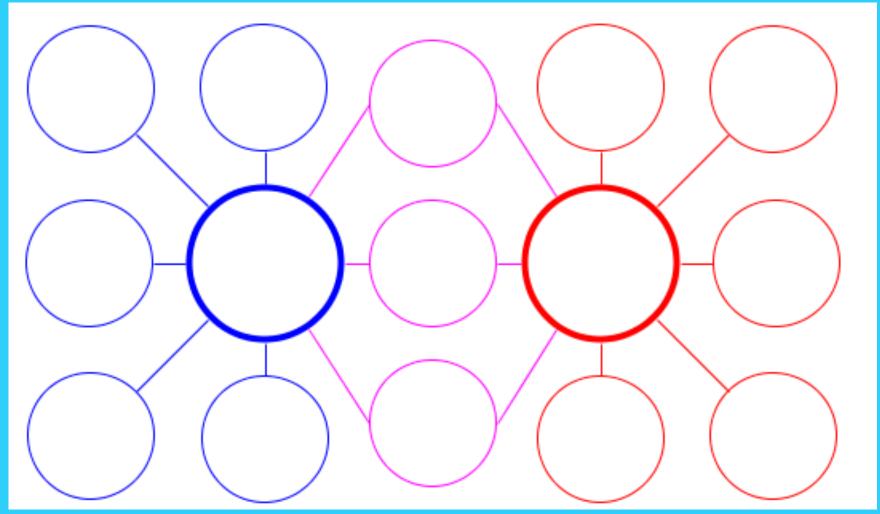
 size, shape, freezing point, boiling point, melting point, magnetism, viscosity, density, luster and many more.



#### Chemical Properties

 Chemical properties are characteristics involved when a substance interacts with another substance to <u>change</u> its chemical make-up.

Flammability	Rusting	Creating gas bubbles
Creating a new chemical product	Reactivity with water	pH



Draw a double bubble map in your notes to compare and contrast physical and chemical properties.