

## Physical/ chemical properties

A substance is a single kind of matter that is pure, meaning it always has a specific makeup and a specific set of properties.

Physical property: a characteristic in which changes result in a difference in display without changing the composition.

Ex: Appearance, Texture, Color, Shape, Density, Melting Point, Boiling Point.

Ex: A physical property of water is that it freezes at a temperature of  $0\text{ }^{\circ}\text{C}$ . When liquid water freezes, it changes to solid ice, but it is still water.

Chemical property: a characteristic of a pure substance that describes its ability to change into different substances.

Ex: methane (natural gas) can catch fire and burn in air. When it burns it combines with oxygen and forms new substances, water and carbon dioxide.

Terms to associate with chemical property: Ability to react, flammability