Physical & Chemical Properties

#	TERM	DEFINITION	
1	MATTER	Anything that has mass and takes up space	
2	PHYSICAL PROPERTY	A characteristic of a substance that you can observe without changing the substance into a different one	
3	DENSITY	The mass of an object divided by its volume (M \div V = D)	
4	Mass	The amount of matter that makes up an object	
5	VOLUME	The amount of space an object takes up	
6	TEXTURE	The way a surface feels, such as rough or smooth	
7	CONDUCTIVITY	The ability of an object to allow electricity or heat pass through it	
8	STATE OF MATTER	One of the forms that matter takes, such as solid, liquid, or gas	
9	CHEMICAL PROPERTY	A characteristic that determines how a substance will react with other subtances	

PHYSICAL PROPERTIES

■ Texture/Temperature	■ Color	■Mass
■Volume	■State of Matter	■ Solubility
■Density	■Shape/Size	■Conductivity

Property of Matter	Descriptors	Examples	
Texture	Gritty, rough, greasy, glassy	The jar felt smooth and glassy	
Conductivity	Flow, energy, heat	The pan conduct heat to the food	
Density	Packed – loose/tight	A golf ball is denser than a balloon	
Mass	Grams, "stuff" in an object	The mass of the ball is 45 grams	
Volume	Space, big or small	The volume of the basketball is more than that of the tennis ball	
State of Matter	Solid, liquid, melt, boil, evaporate, condense, freeze	Ice is a solid; Water is a liquid	
Solubility	Dissolve, solid in a liquid	Sugar is soluble, iron is not	

CHEMICAL PROPERTIES

Words associated with chemical reactions:

- a NEW substance
- Change if color/ rust/ tarnish
- Formation of a gas/ Presence of bubbles/ new smell
- Presence of light or heat

EXAMPLES OF CHEMICAL REACTIONS:

EXAMPLES OF	JIILIMOAL	
BEFORE		AFTER
Liquid, slimy, clear egg	cook	White, fluffy, solid egg (New substance, change in color)
Bicycle	Left out/ weather	Rust (Change in color)
Mentos	Drop in Coke	Explosion (formation of bubbles)
Silver Penny	Exposed to air	Tarnish (Change in color) Darken
Cake batter (flour, sugar, eggs, oil, water, etc.)	Bake	Cake (new substance)
Wood	burn	Ash (New substance/ change in color/ Presence of light & heat))
Apple core	Leave out	Turns brown (Change in color)