Cheatography

Chemistry 1 Cheat Sheet by kair (kair) via cheatography.com/153293/cs/32972/

The Classification of Matter

Matter has many forms

Matter – anything that has mass and volume.

Mass is a measure of the quantity of an object. (g, kg,)

Volume is a measure of space taken up (mL, L)

Matter can be found as a solid, liquid or gas. (or even a combination of these)

Changes of State

There are 3 states	Solid,-					
of matter	Liquid, gas					
Melting – Change from a solid to a liquid						
Evaporation - Change from a liquid to a gas						
Condensation - Change from a gas to a liquid						
Freezing - Change from a liquid to a solid						
Sublimation - Change from a solid to a gas						
Deposition - Change to a solid	from a gas					
The temperature at which a solid turns into a liquid is called the melting point. (water is 0°C) The reverse process, freezing,						

occurs at the freezing point.

THE PARTICLE THEORY OF <u>MATTER</u>

MATTER – anything that has mass and takes up space, but is NOT energy

Matter is made up of tiny particles that have empty spaces between them

Different substances are made up of different kinds of particles

Particles are in constant random motion

The particles move faster as temperature increases

Particles are attracted to each other

SOLIDS, LIQUIDS, & GASES

GASES: Particles are so far apart, their forces of attraction have little effect on their behavior

LIQUIDS: Forces of attraction are weaker than those of solids, and are able to flow past each other

SOLIDS: Forces of attraction are strong enough to hold the particles close together in a rigid shape

Pure Substances

A pure substance is made up of only one kind of matter unique colour, hardness,

uniquecolour, hardness,set ofboiling point, andpropertiesmelting point.

A pure substance is either an element (gold) or a compound (sugar).



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Element

A pure substance that cannot be broken down into any simpler substance by chemical means.

Each element has its own name and symbol. Example: Gold (Au)

Compound

A pure substance that is made from two or more elements that are combined together chemically.

Example, water (H2O) is a compound containing the elements hydrogen and oxygen.

Mixtures What is

are

mixtu

at is	А	Each Contains		Mixtures	
	mixture	substance	more	can be	
ures?	is a	remains	than one	solids,	
	combin	in its	type of	liquids,	
	ation of	original,	particle	or gases	
	pure	pure form,			
	substa-	although			
	nces.	each is			
		not			
		always			
		easy to			
		see			
		distinctly			
		once the			
		mixture is			
		made.			

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Mixtures (cont)

Mixtures Hetero-Eg. can be: geneous (a Cereal or Salad mixture in which the Dressing different parts are visible) also known as Mechanical Mixtures or Suspen-

sions

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Mixtures (con	t)		Mixture	es (cont)		
Mechanical Mixture (heteroge- neous mixture)	Different su the mixture different			g= s	upDifferent substances that make it up are not indivi-	One substance is dissolved in another	The prefix "homo-" means same,
Suspension	A cloudy mixture in which tiny particles of one substance are held within another.	Can be separate out whe the mixture poured through filter paper.	n is a het is ger	also ero	- us		and all parts of a homoge neous mixture look the same.



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