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 of matter	Solid,- Liquid, gas		
Melting – Change from a solid to a liquid			
Evaporation - Chang liquid to a gas	e from a		
Condensation - Char gas to a liquid	ige from a		
Freezing - Change fr to a solid	om a liquid		
Sublimation - Change solid to a gas	e from a		
Deposition - Change to a solid	from a gas		
The temperature at w turns into a liquid is o melting point. (water reverse process, free	called the is 0°C) The		

occurs at the freezing point.

THE PARTICLE THEORY OF MATTER

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,

set of boiling point, and melting point. properties

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	А	Each	Contains	Mixtures
are	mixture	substance	more	can be
mixtures?	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
	mixture in	or Salad
	which the	Dressing
	different	
	parts are	
	visible) -	
	also known	
	as	
	Mechanical	
	Mixtures or	
	Suspen-	
	sions	

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Mixtures (con	t)		Mixture	es (o	cont)		
Mechanical Mixture (heteroge- neous mixture)	Different su the mixture different			ም \$	pDifferent 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 al hete	lso ero- ieot	- us		and all parts of a homoge neous mixture look the same.



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