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Chemistry 1 Matter Worksheet

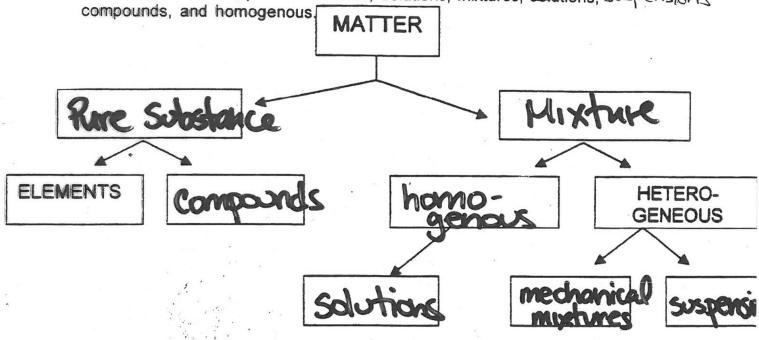
You may use your pages from the Chemistry 11 text as reference while working on this worksheet.

1. Define MATTER: anything that has a mass and occupies space (volume)

2. What are the three main "states" or "phases" of matter?

Solid, liquid + gas

3. Beginning in Science 8 you have learned how to classify matter using the "Matter Tree". Place the following terms into the matter tree drawn below: mechanical mixtures, pure substances, solutions, mixtures, solutions, suspensions



4. Define and give an example of the following types of matter:

a. element -a Substance that can not be broken Cown into simpler substances (ex: gold)

b. compound - a pure substance that is made up of two or more different atoms (ex: NaCI)

c. heterogeneous mixture - each component present has distinct physical properties

d. homogeneous mixture - ea ch component present
has uniform physical properties
(ex: Kodaid)
e.solution -

esolution - a homogeneous mixture which is made up of two or more substances yet appear uniform (ex:sak water)

f. mechanical mixture - a heterogeneous mixture made up of two or more parts

g. suspension - a cloudy muxture that consists of clumps of solid or droplets of liquid Scattered throughout. (ex: oil + vinegar)

Now read pages 53 to 57 and summarize the following: Filtration:

Dishllation:

Chromatographgi

EX: 45-48,53-55 P9 58 259

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Chemistry 11 Physical vs. Chemical Changes

In a physical change the original substance still exists. In a chemical change a new substance is produced. Energy changes always accompany chemical changes.

CLASSIFY the following scenarios as being either a PHYSICAL or CHEMICAL CHANGE.

Physical or Chemical Change
Physical
Chemical
Physical
Physical
Chemical
Chemical
Chemical
Plansical
Division
C. Intron. Cal
Physical
Chemical
Chemical
Chemical
Physical
Chemical

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Chemistry 11

Physical and Chemical Properties of Matter

A physical property is observed with the senses and can be determined without destroying the object. For example: colour, mass, length and odor are all examples of physical properties.

A chemical property indicates how a substance reacts with something else. The original substance is fundamentally changed in observing a chemical property. For example, the ability of iron to rust is a chemical property. The iron has reacted with oxygen, and the original iron metal is changed. It now exists as iron oxide, a different substance.

CLASSIFY the following properties as either chemical or physical by putting a check in the appropriate column.

PROPERTY	Physical	Chemical
1. blue colour		
2. density		
3. flammability		
4. solubility		3
5. reacts with acid to form H ₂		
6. supports combustion		
7. sour taste	1	
8. melting point		-
9. reacts with water to form a gas		
10. reacts with a base to form water		
11. hardness		
12. boiling point		
13. can neutralize a base		I
14. luster - Shine		