Chemistry Worksheet: Matter #1

1.	A mixture (is/is not) a chemical combining of substances.			
2.	In a compound the (atoms/molecules) are (chemically/physically) combined so that the elements that make up the compound (retain/lose) their identities and (do/do not) take on a new set of properties.			
3.	The smallest identifiable unit of a compound is a(n), which is made up of which are chemically bonded.			
4.	True or False: A mixture is always made up of a combination of elements.			
5.	In a mixture, the substances (lose/retain) their identities.			
6.	In a mixture the substances involved (can/cannot) be separated by a simple physical process. In a compound the elements involved (can/cannot) be separated by a simple physical process because the elements are (physically combined/chemically bonded).			
7.	True or False: An element can be broken down into a simpler substance.			
8.	The smallest identifiable unit of an element is a(n)			
silver water		following list of substan carbon dioxide hydrogen gold sulfur	ces, circle the ones t wood alcohol carbon sugar magnesium	chromium nitrogen salt
10.	Explain how to separate the sugar and water in a solution of sugar and water.			
11.	How would you separate a mixture of alcohol and water?			
12.	How would you separate sand and water?			

13. Classify the following as pure substances or as mixtures:

air gasoline grain alcohol

water sugar gold

mercury oxygen salt water

14. Classify the following as heterogeneous or as homogeneous:

sand & salt mixture hydrogen iron

salt water unfiltered air iron with rust

pure water an apple nitric acid

tossed salad granite wood

15. Classify the following as an element, a compound, a solution, or a heterogeneous mixture:

aluminum raisin bread

carbon dioxide water

sugar and water sulfur

sulfuric acid mercury

an orange water & instant coffee

a pencil carbon particles & sugar

nitrogen air

gasoline grain alcohol