

## Keypoints Matter, Mixtures and Compounds

### Definitions

*You will not be asked to write a definition of any of these but I do expect you to recognize them when they are used in problems, etc..*

Composition of Matter	Liquid
Composition of a Substance	Mixture
Compound	Pure Substance
Element	States of Matter
Gas	Substance
Heterogeneous Mixture	Solid
Homogenous Mixture	

### Concepts

1. Be able to describe the two main ways to classify matter.
2. Be able to define matter, give examples of matter, and be able to distinguish matter from non-matter. (For example a rock is matter, but the heat given off by a warm rock is not matter.)
3. Be able to describe the 3 common states of matter and properties of each of these states.
4. Be able to identify a substance as either a mixture or a pure substance, and explain your answer. If it is not possible to identify the substance as one or the other be able to explain your reasoning. Be able to tell if a substance is heterogeneous mixture, homogeneous mixture, compound or element.
5. Be able to describe the reasoning you used in your classification, or explain why you can not tell whether a substance is one of these four.
6. Be able to give a way to separate both homogeneous and heterogeneous mixtures.
7. Be able to explain the difference between an element and a compound.
8. Be able to explain how a compound differs from a homogeneous mixture.
9. How would you distinguish between an element and a compound if you were given the name of one of these pure substances.