

Solutions
Understanding Concepts Page 47

Do questions 1 ab, 2, 3, 4 a,b,c

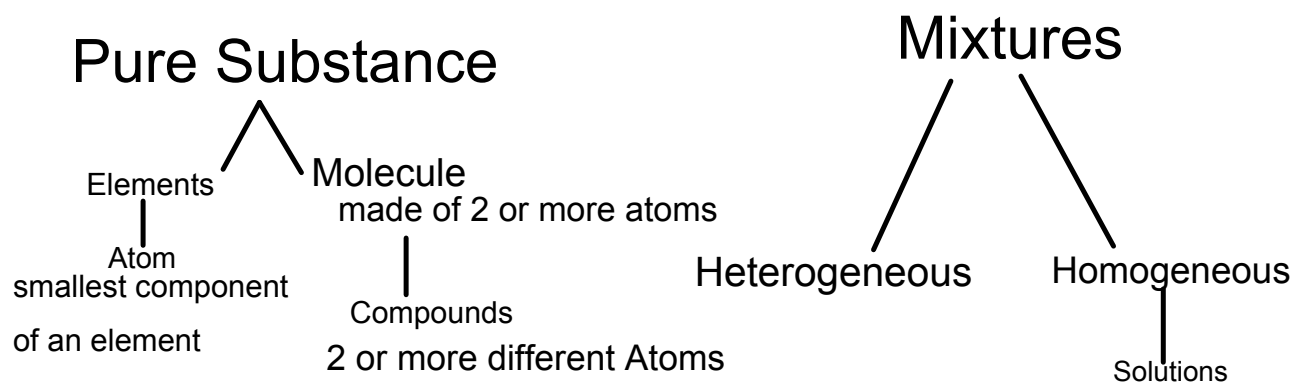
1a) A pure substance is made up of one type of element or compound.

A mixture is made up of two or more pure substances.

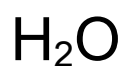
b) A solution (Homogenous mixture) is made up of two or more substances that are blended so you can't see individual parts.

Heterogeneous mixture is made up of two or more substance and each substance can be identified when looking at it.

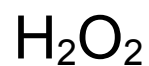
2) Categories of Substances



3) Two molecules made for the same type of atoms are:



Hydrogen Dioxide



Hydrogen Peroxide



Carbon Dioxide



Carbon monoxide

4) a) A clear, colorless liquid that can be split into two gasses with different properties.

Compound

b) A yellow solid that always has the same properties and cannot break down.

Element

c) A colorless gas that burns to produce carbon dioxide and water

Compound

Concept Summary Chart

Draw and fill out the following chart using pages 44-46

Term	Definition	Example
pure substance		
mixture		
solution		
Heterogeneous mixture		
elements		
compounds		
atom		
molecule		

Chemical symbols and formulas

(p. 58, 59).

Carbon

C

Iodine

I

A chemical symbol is an abbreviation of an element name. It is an international system. When a symbol only has one letter, it is a capital.

Chlorine

Cl

Gold
Au

(see table 1 page 58)

Web Elements





Attachments

atoms.avi

Periodic Table.avi

compounds and mixtures.avi