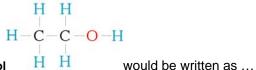
Topic 6 - Chemical Compounds

- When any of the 112 elements combine into groups of 2 or more they form compounds. If atoms of 1. elements are shared, this type of compound is formed.
 - A. ionic
 - B. atomic
 - C. aqueous
 - D. molecular
- The chemical formula uses symbols and numerals to identify which elements and how many atoms of 2. each element are present in the compound.



The chemical formula for ethanol

- A. C₂ H₆ O
- B. H₃CH₂ COH C. C₂ 3H₂ O D. H₂ HC₂ OH H₂
- Guyton de Morveau in France developed a standardized chemical naming system in 1787 to determine a chemical name. The type of element that is always first is the ...
 - A. acid
 - B. base
 - C. metal
 - D. Non-metal
- 4. If a compound is formed and it contains a metal the compound is.
 - A. ionic
 - B. acidic
 - C. basic
 - D. molecular
- 5. The only compound that contains three elements is ...
 - A. H₂O_(I) Water
 - B. C₆H₁₂O_{6(s)} Glucose
 - C. CO_{2(g)} Carbon dioxide
 - D. NO_{2(a)} Nitrogen dioxide
- 6. Substances dissolved in water use a symbol following the chemical formula ti identify it as a waterbased solution ...
 - A. liquefied
 - B. dissolved
 - C. distilled
 - D. aqueous
- A molecule is the smallest independent unit of a pure substance. Diatomic molecules are molecules made up of.
 - A. 2 atoms of the same element
 - B. more than 2 atoms of an element
 - C. 1 atom from 2 different elements
 - D. 2 atoms from 2 different elements
- 8. In molecular pure substances the bonding between atoms is strong, but the attraction between the molecules is weak. They are good insulators, poor conductors and have a distinct crystal shape. This type of molecular compound is produced when ...
 - A. metals combine
 - B. non-metals combine

 - C. gases and solids combineD. non-metals and metals combine

- 9. Some molecular compounds are better known by their common names rather than their chemical names, example: water H₂O is actually
 - A. hydroxide
 - dihydroxide B.
 - C. hydrogen dioxide
 - D. dihydrogen oxide
- When dissolved in water, the metal (Na) loses an electron and the nonmetal (Cl₂) gains an electron forming an aqueous solution of ions like these ...
 - $(Na)+ (Cl_2) +$ A.
 - B. $(Na)-(Cl_2)+$
 - C. $(Na)+ (Cl_2)-$
 - D. (Na)- (Cl₂)-
- Some ions can also form when certain atoms of elements combine. These ions are called polyatomic ions (poly meaning "many"). Polyatomic atoms are a group of atoms acting as one. The compound that contains a polyatomic ion is ...

 - A. H₂O_(I)
 B. NaCl_(s)
 C. C₆H₁₂O_{6(s)}
 - D. CaCO_{3(s)}
- 12. Some compounds of copper such as Copper II Sulfate used use a roman numeral in its chemical name. Cu(II)SO₄ The roman numeral is used to show ...
 - A. which ion is used

 - B. how the ion is usedC. the order of ions usedD. how many ions are used
- A compound made from two elements is called a.
 - A. dual compound

 - B. binary compound
 C. double compound
 D. secondary compound
- 14. Generally when looking at patterns in the periodic table this can be said about elements in a group ...
 - A. They all have the same density
 - B. They react very violently
 - C. They all have the same ion charge
 - D. They all have different ion charges

15.

# of Atoms	Prefix
1	mono
2	di
3	tri
4	tetra
5	penta

The formula for carbon tetrachloride is ...

- A. C₄CI
- B. CCI₄
- C. C₄Cl₄
- D. CI₄C