

NAME: _____

Practice with Nomenclature

ChemV20, Elementary Chemistry

Determine whether the following compounds are **molecular** or **ionic**. Give the correct and **balanced** molecular or ionic formula for each and **name** them appropriately.

- 1.) 1 of the second to last element in alphabetical order + 1 of the element where $Z = 16$.
- 2.) The alkaline earth metal in period 6 + nitrate
- 3.) The element used to give pennies their color with a cationic 2 charge + sulfate
- 4.) 2 of the predominant element in atmospheric air + 5 of the only diatomic chalcogen
- 5.) The element where $A = 195$ and the number of neutrons is 117 with a cationic 4 charge + phosphate
- 6.) 3 hydrogen + 1 phosphate in aqueous solution
- 7.) A fifth period alkali metal with the only element in Group 6A that is a gas at room temperature.

8.) 2 hydrogen + 1 carbonate in aqueous solution

9.) The element from the alkali metals that is found in bananas + the group 6A element that has a smell and look similar to rotten eggs.

10.) 1 of the element used in graphite + 4 of the only element that makes a reddish-brown liquid at room temperature

11.) 1 hydrogen + 1 fluorine in aqueous solution

12.) 2 of the red, solid element used in matches + 7 of the halogen with the fewest number of protons

13.) The ionized element that contains 76 protons, 68 electrons, and 114 neutrons + the element that comes second to last in alphabetic order in period 2 with a -3 charge.

14.) A metal that is a shiny liquid at room temperature with a cationic 2 charge + an element that is a poisonous gas at room temperature in period 3.

15.) 2 of the only non-metal of period 2 to be solid at room temperature + 4 of the element two groups to the right.