

## Vasquez High School -- Physical Science -- Quest #8 -- Chapter 18 -- 80 points

Write TRUE if the statement is true OR write the word or words that substitute(s) for the underlined word or words that would make it true. Writing false only earns partial credit. Three points apiece.

- \_\_\_\_\_ 1) A chemical equation describes the number and type of atoms in a compound.
- \_\_\_\_\_ 2) A binary compound is one where only two elements are involved.
- \_\_\_\_\_ 3) Most atoms need ten electrons in their outer shells to complete that energy level.
- \_\_\_\_\_ 4) We use Latin prefixes to name those compounds composed of metals and non-metals.
- \_\_\_\_\_ 5) A hydrate is a compound that has one or more water molecules attached to it.
- \_\_\_\_\_ 6) A polar bond is a one where electrons are shared equally between both atoms.
- \_\_\_\_\_ 7) The hydroxide ion is written as  $\text{OH}^-$ .
- \_\_\_\_\_ 8) The calcium ion will most likely give away two electrons when forming a bond.
- \_\_\_\_\_ 9) The electrons in the outer energy shell are called bonding electrons.
- \_\_\_\_\_ 10) The small numbers at the bottom of  $\text{C}_{12}\text{H}_{22}\text{O}_{11}$  are called base numbers.

Short Answer / Fill-in. Be clear, complete and neat. If I cannot read it, you get zilch. Three points.

- 11) The small plus and minus numbers we write for ions are called \_\_\_\_\_ numbers.
- 12) The three most common types of chemical bonds are \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_.
- 13) The symbol for the compound copper sulfate pentahydrate is \_\_\_\_\_.
- 14) Give three examples of diatomic gases: \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_.
- 15) Circle the one that does not belong with the others:
- Chlorine      Argon      Xenon      Neon      Helium
- 16) Draw a model of the water molecule with all the atoms, nuclei, electrons and charge where applicable. Five points.

