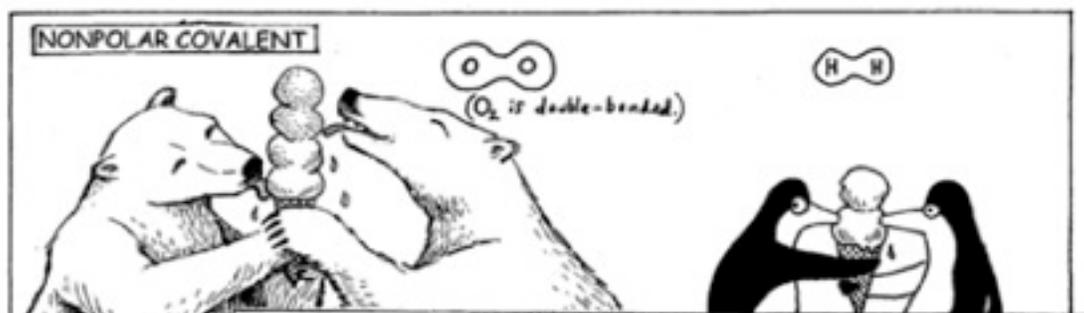
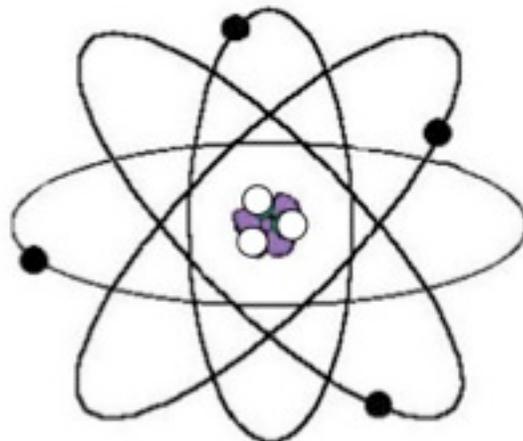


## Chemistry Practice

1. Protons have a \_\_\_\_\_ charge and are found in the nucleus.
2. Neutrons have a \_\_\_\_\_ charge and are found in the nucleus.
3. Electrons have a \_\_\_\_\_ charge and are found orbiting the nucleus
4. Label a proton, neutron and electron in the atom to the right.
5. When an atom is missing one or more electrons it will have a \_\_\_\_\_ charge.
6. When an atom has one or more extra electron it will have a \_\_\_\_\_ charge.
7. An atom with a charge is called an \_\_\_\_\_.
8. Atoms of the same element with different numbers of neutrons are called \_\_\_\_\_.



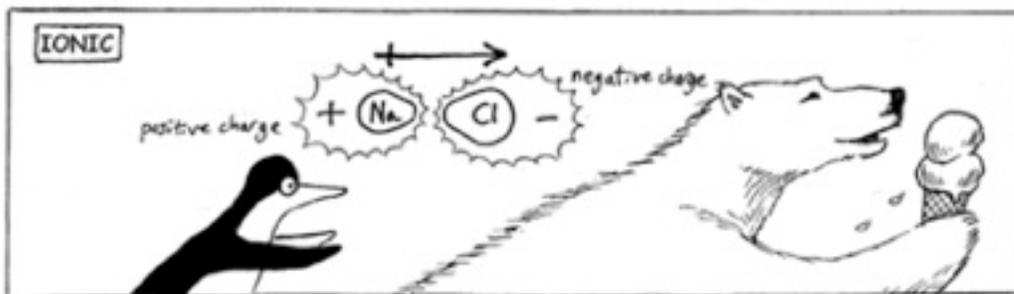
9. What types of bonds represented in the picture to the left: Polar, Covalent, or Ionic?

10. What happens to the electrons in this type of bond?
11. Explain how this picture represents the bond you chose.

12. What types of bonds represented in the picture to the right: Polar, Covalent, or Ionic?



13. What happens to the electrons in this type of bond?
14. Explain how this picture represents the bond you chose.



15. What types of bonds represented in the picture to the left: Polar, Covalent, or Ionic?

16. What happens to the electrons in this type of bond?
17. Explain how this picture represents the bond you chose.
18. What do you think the ice cream represents in all of the pictures above?
19. Based on the notation, classify each of the following as: **Two Elements** OR **Two Compounds** OR an **Element and a Compound** (the letters stand for a chemical symbol)
- NaCl & Fe :
  - B & Na :
  - HCl & NH<sub>3</sub> :

20. **The Gold Dust Kid.** Fill in the story with the correct elements.

The kid mounted his trusty steed, old [B] \_\_\_\_\_. His shooting [Fe] \_\_\_\_\_ strapped to his side, he headed out for the bright [Ne] \_\_\_\_\_ lights of Sabattus, aiming to rob the Litchfield stage. There was sure to be a load of precious [U] \_\_\_\_\_ aboard, and probably [K] \_\_\_\_\_, too. Inhaling a deep breath of [O] \_\_\_\_\_ he coughed on the [S] \_\_\_\_\_ from the nearby mills. Since the [Hg] \_\_\_\_\_ was climbing, he quenched his thirst with some H<sub>2</sub>O, tasting the [Cl] \_\_\_\_\_ all big cities like Wales had. As he headed north his bones ached from [Ca] \_\_\_\_\_ deposits built up over years of riding the [Zn] \_\_\_\_\_ trail. Overhead a [He] \_\_\_\_\_ filled balloon floated in the breeze; the sun beat down like burning [P] \_\_\_\_\_.



Soon he spotted the stage, guarded only by a sheriff with a [Sn] \_\_\_\_\_ badge. "Halt," he yelled, "or I'll fill you full of [Pb] \_\_\_\_\_." The sheriff drew his gun, but alas, was too slow. The kid's gun, blazing like flaming [Mg] \_\_\_\_\_ did the [Cu] \_\_\_\_\_ in. Anyone who drew on the Kid should know his life wasn't worth a plugged [Ni] \_\_\_\_\_. A [Pt] \_\_\_\_\_ blonde riding beside the [Al] \_\_\_\_\_ - framed coach rode for her life when the Kid pulled out some [N] \_\_\_\_\_ compounds, preparing to blow the safe to atoms.

Suddenly, a shout rang out, "Hi ho [Ag] \_\_\_\_\_," and a masked man on a white horse raced across the [Si] \_\_\_\_\_ sands like [Na] \_\_\_\_\_ skittering on H<sub>2</sub>O. A [H] \_\_\_\_\_ bomb would not have stopped the lawman; the Kid had met his doom. The rest of his life was to be spent behind [Co] \_\_\_\_\_ steel bars, a warning to all who flirt with danger. Your first detention may be the initial step in a [C] \_\_\_\_\_ copy life of the saga of the [Au] \_\_\_\_\_ Dust Kid.