

Pb Lead

Atomic Number: 82

Atomic Mass: 207.2 ≈ 207

p^+ : 82 = atomic number
 n^0 : 125 = Atomic mass - Atomic number
 e^- : 82

Ag Silver

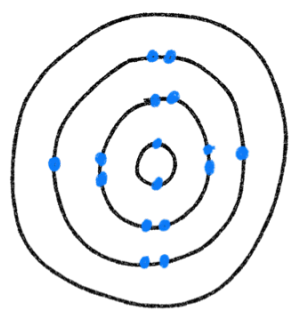
Atomic Number: 47

Atomic Mass: 107.8682 ≈ 108

p^+ : 47
 n^0 : 61
 e^- : 47

Bohr Models (Electrons)

Sulfur



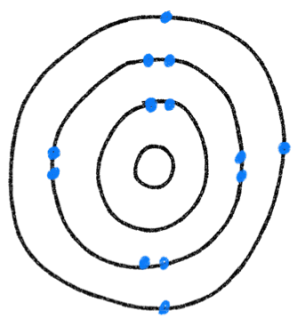
6 valence electrons

Valence Electrons
outermost electrons

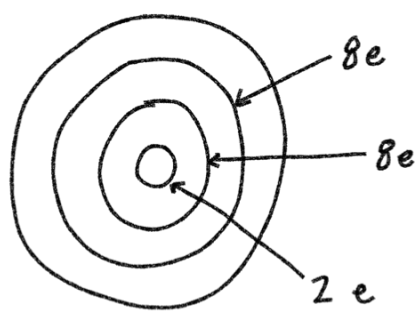


Lewis Dot Structures

Aluminum



3 valence electrons



Lewis Dot Structures

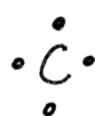
Nitrogen



Hydrogen



Carbon

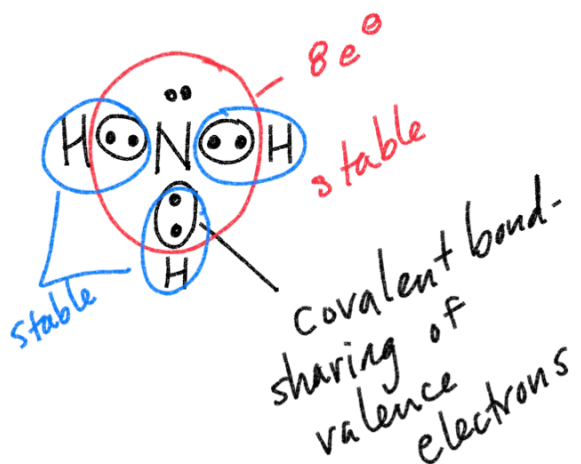


Oxygen



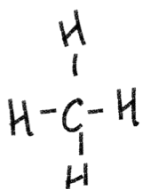
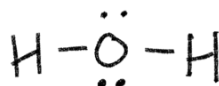
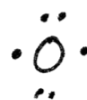
Octet Rule

Atom is most stable when it has 8 electrons in its outer orbital/shell.



Covalent bonds are strong bonds

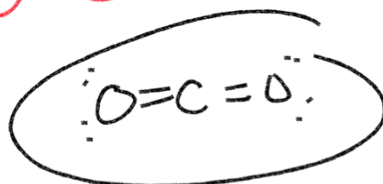
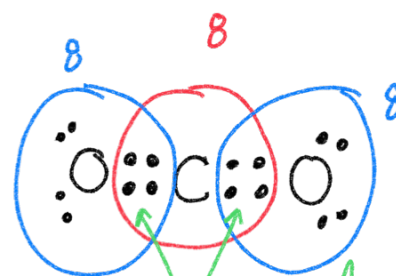
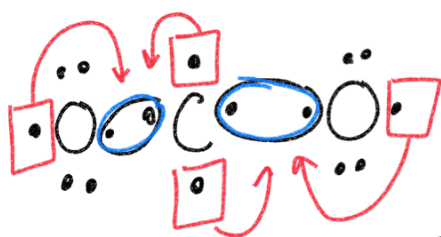
methane



Carbon dioxide

lone pairs

* bonds are the sharing of electrons *



Chemical reactions are the attempt of atoms to exchange and rearrange electrons.

HW/quiz 15
due Jan 27th HW
Complete the
Bohr Model
and be ready
to present next
time No HW/quiz 16