

- 1) List the diatomic elements.

Hydrogen, Oxygen, Fluorine, Bromine, Iodine, Nitrogen, Chlorine

- 2) List the molecular formulas for the diatomic elements.

 $H_2, O_2, F_2, Br_2, I_2, N_2, Cl_2$

- 3) How can you tell if a compound will be ionic or covalent?

- 4) Complete the following chart:

Element name	Atomic number	Charge of ion	Number of protons	Number of electrons	Number of neutrons
Oxygen	8	-2	8	8	8
Beryllium	4	+2	4	4	5
Sodium	11	+1	11	11	12

- 5) How can you tell if a compound is ionic or covalent?

- 6) Draw the following Bohr models:

Species	Bohr model	Lewis structure
Magnesium		