

Study Guide for Ionic Bonding

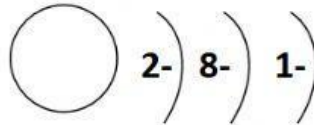
Fill in all the blanks and complete the nucleus of the Bohr Models

For the elements that **lose electrons**, drag the electrons that are lost into the trash. For the elements that would **gain electrons**, drag the correct number gained on to the right energy level.

1) Family one

- a) Valence electrons _____
- b) Oxidation number _____
- c) Gain or lose electrons _____
- d) How many electrons are left on the outer ring _____

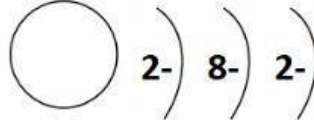
Na 11+ protons, 12 neutrons, 11- electrons



2) Family two

- a) Valence electrons _____
- b) Oxidation number _____
- c) Gain or lose electrons _____
- d) How many electrons are left on the outer ring _____

Mg 12+ protons, 12 neutrons, 12- electrons



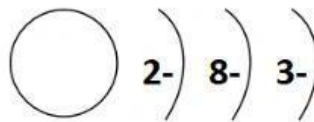
Put the electrons lost in the trash



3) Family three

- a) Valence electrons _____
- b) Oxidation number _____
- c) Gain or lose electrons _____
- d) How many electrons are left on the outer ring _____

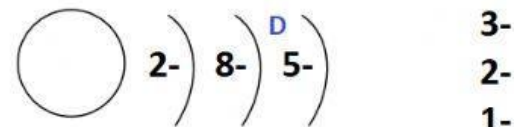
Al 13+ protons, 14 neutrons, 13- electrons



4) Family Five

- a) Valence electrons _____
- b) Oxidation number _____
- c) Gain or lose electrons _____
- d) How many electrons are left on the outer ring _____

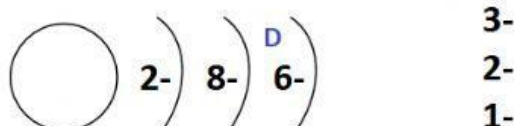
P 15+ protons, 16 neutrons, 15- electrons



5) Family six

- a) Valence electrons _____
- b) Oxidation number _____
- c) Gain or lose electrons _____
- d) How many electrons are left on the outer ring _____

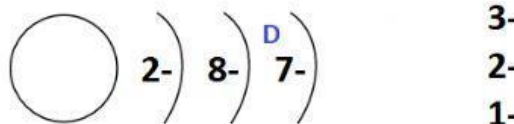
S 16+ protons, 16 neutrons, 16- electrons



6) Family seven

- a) Valence electrons _____
- b) Oxidation number _____
- c) Gain or lose electrons _____
- d) How many electrons are left on the outer ring _____

Cl 17+ protons, 18 neutrons, 17- electrons



7) Family eight - noble gases

- a) Valence electrons _____
- b) Oxidation number _____
- c) Gain or lose electrons _____
- d) How many electrons are left on the outer ring _____

Ar 18+ protons, 22 neutrons, 18- electrons

