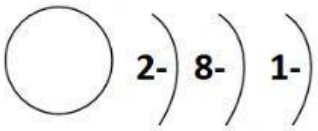
Study Guide for Ionic Bonding

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

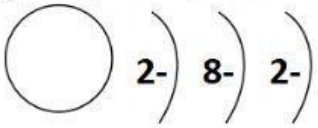
1) **Family one**
   a) Valence electrons _____
   b) Oxidation number _____
   c) Gain or lose electrons_____
   d) How many electrons are left on the outer ring _____
2) **Family two**
   a) Valence electrons _____
   b) Oxidation number _____
   c) Gain or lose electrons_____
   d) How many electrons are left on the outer ring _____
3) **Family three**
   a) Valence electrons _____
   b) Oxidation number _____
   c) Gain or lose electrons_____
   d) How many electrons are left on the outer ring _____
4) **Family Five**
   a) Valence electrons _____
   b) Oxidation number _____
   c) Gain or lose electrons_____
   d) How many electrons are left on the outer ring _____
5) **Family six**
   a) Valence electrons _____
   b) Oxidation number _____
   c) Gain or lose electrons_____
   d) How many electrons are left on the outer ring _____
6) **Family seven**
   a) Valence electrons _____
   b) Oxidation number _____
   c) Gain or lose electrons_____
   d) How many electrons are left on the outer ring _____
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 _____

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

Na 11+ protons, 12 neutrons, 11- electrons



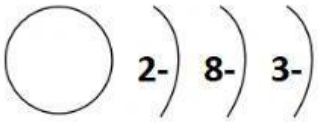
Mg 12+ protons, 12 neutrons, 12- electrons



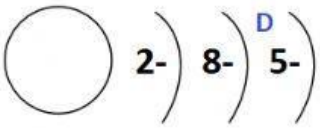
Put the electrons lost in the trash



Al 13+ protons, 14 neutrons, 13- electrons

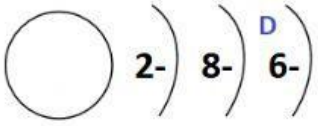


P 15+ protons, 16 neutrons, 15- electrons



3-
2-
1-

S 16+ protons, 16 neutrons, 16- electrons



3-
2-
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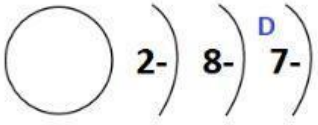
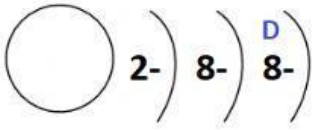
Cl 17+ protons, 18 neutrons, 17-electrons



3-
2-
1-

Ar 18+ protons, 22 neutrons, 18-electrons



3-
2-
1-

LIVEWORKSHEETS