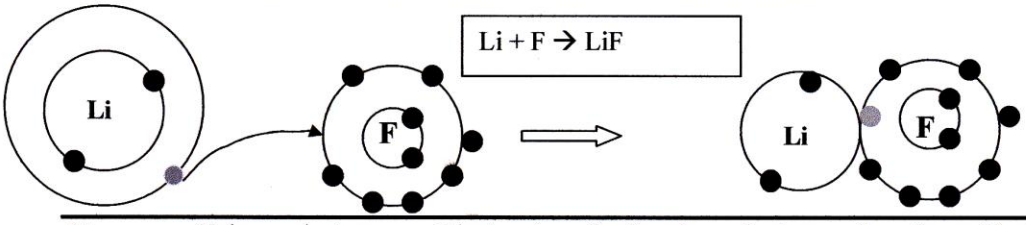
Name _____ Date _____ Period _____

Ionic Bonding Worksheet

For each pair of elements below draw an atomic diagram showing electrons in different energy levels. Draw arrows to show where the outer electrons will go during a chemical reaction, then draw the resulting compound. Finally, fill in the table below each reaction. Refer to the sample shown.



Atoms Valence electrons Electron transfer from/to each atom Ions formed in the product

Li

F

Reactions	Atoms	Valence electrons	Electron transfer from/to each atom	Ions formed in the product
1) Li + Cl => LiCl				
2) Ca + O => CaO				
3) Be + F => BeF_2				
4) Mg + S => MgS				
5) K + F => KF				

Reactions	Atoms	Valence electrons	Electron transfer from/to each atom	Ions formed in the product
6) $Al + Cl \Rightarrow AlCl_3$				
7) $Na + O \Rightarrow Na_2O$				
8) Li + N =				
9) Mg + F=				
10) Na + F =>				
11) Al + O =>				
12) Li + O =>				
13) K + S =>				
14) Mg + O =>				