Name: _____

Group: _____ Block #: ___

Date: _____

Exceed to Succeed

Worksheet: Periodic Trends

1. ATOMIC RADIUS

For each of the following sets of atoms, rank the atoms from smallest to largest atomic radius.

a. Li, C, F
b. Li, Na, K
c. Ge, P, O
d. C, N, Al
e. Al, Cl, Ga

2. IONIC RADIUS

For each of the following sets of ions, rank them from smallest to largest ionic radius.

a. Mg^{2+}, Si^{4-}, S^{2-}
b. Mg^{2+}, Ca^{2+}, Ba^{2+}
c. F^{-}, Cl^{-}, Br^{-}
d. Ba^{2+}, Cu^{2+}, Zn^{2+}
e. Si^{4-}, P^{3-}, O^{2-}

3. IONIZATION ENERGY

For each of the following sets of atoms, rank them from lowest to highest ionization energy.

a. Mg, Si, S
b. Mg, Ca, Ba
c. F, Cl, Br
d. Ba, Cu, Ne
e. Si, P, He

4. ELECTRONEGATIVITY

For each of the following sets of atoms, rank them from lowest to highest electronegativity.

a. Li, C, N
b. C, O, Ne
c. Si, P, O
d. K, Mg, P
e. S, F, He