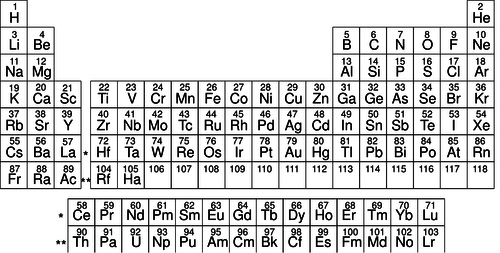
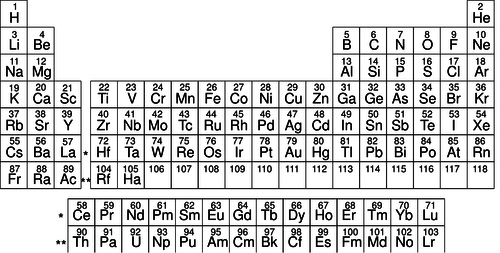
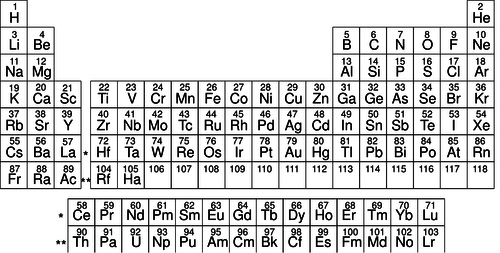
**Trends in Atomic Size** (pages 134-137 in textbook on website)

1. **What is an atomic radius?**
2. **Draw the general trend of atomic radius down a group and across a period.**
3. **For each pair of elements, circle the larger atom:**
   1. He and Ar
   2. Al or B
   3. Na or Al
   4. S or O
   5. O or F
   6. Br or Cl
4. **Rank in order of INCREASING atomic radius**
5. Ca, K, Br \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. Mg, Na, Cl \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. Al, B, or In \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. **Rank in order of DECREASING atomic radius**
9. Cl, Br, At \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
10. Ne, Li, C \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
11. Ca, Ra, Sr \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Trends in Ionization Energy** (pages 137-139 in textbook on website)

1. **What is ionization energy?**
2. **Draw the general trend of ionization energy with down a group and across a period.**
3. **For each pair of elements, circle the element that has the greater first ionization energy:**
   1. Li or K
   2. Li or Be
   3. Ca or Ba
   4. Na or K
   5. P or Ar
   6. Cl or Si
4. **Rank in order of INCREASING ionization energy**
5. O, S, Ge \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. C, Pb, F \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. Be, Ba, B \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. **Rank in order of DECREASING ionization energy**
9. Al, P, Ag \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
10. Cl, Cu, Au \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
11. Te, I, Xe \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Trends in Electronegativity** (pages 198 in textbook on website)

1. **What is electronegativity?**
2. **Draw the general trend of electronegativity with down a group and across a period.**
3. **What is the most electronegative element? \_\_\_\_\_**
4. **For each pair of elements, circle that atom that has the greater electronegativity:**
5. Ca or Ga
6. Br or As
7. Li or O
8. Ba or Sr
9. Cl or S
10. O or S
11. **Rank in order of INCREASING electronegativity**
12. V, Y, O \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
13. Na, K, Ne \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
14. Fr, Ca, Co \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
15. **Rank in order of DECREASING electronegativity**
16. As, Se, Sn \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
17. Xe, Ru, Hf \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
18. Sb, N, He \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_