1. Describe some of the characteristics of phenols.

2. For the molecules shown below, rank them in order of a) increasing acidity b) increasing pKa. Explain the rankings.

   Phenol, Alcohol, Carboxylic Acid

3. Review of Acidity- does an acid lose a proton or gain a proton? What are some ways that the conjugate base can be stabilized? If you increase stability of the conjugate base, will the acidity of the acid decrease or increase? Why?

4. What position(s) on phenol will a functional group have the greatest affect on acidity? Explain using resonance.
5. For an anion, would you want electron withdrawing groups attached or electron donating groups? Explain why.

6. List some electron withdrawing and electron donating groups.