

Name _____

Slayter Box _____

Pre-lab questions.

*** Make sure you find the structures of the chemicals we will be using, even if they are normally found in the kitchen. Include this information in your pre-lab notebook preparation.

*** See page 10 of the course syllabus for clarification of what is expected in general each week before lab.

*** Staple a copy of pre-lab notebook page(s) to this when you turn this in at the beginning of lab.

1. Investigate the compound called phenol.
 - a. What is its pK_a ? _____
 - b. Draw an acid-base reaction involving phenol and acetic acid. (They will be on opposite sides of the reaction arrow.) Determine, from a consideration of pK_a values, on which side of the equation the equilibrium will lie.

2. The wavelength of maximum absorption of light of a certain dye is 591 nm. Assuming the name of the dye reveals the color we perceive when the dye is in solution or on a fabric, is the dye most likely methylene blue, red dye #5, or acid yellow 17? Why?

3. A compound has the following absorbance spectrum. What is the likely color of this compound?

