



**Pre-AP Chemistry**  
**Unit #12—Acids and Bases**

**Determination of the pH of an Acid or Base using Indicators**

**Calculations**

1. Based on the estimated pH for each compound:
  - A. Calculate the pOH for each compound.
  - B. Calculate the  $[H^+]$  concentration.
  - C. Calculate the  $[OH^-]$  concentration.

**Questions**

1. Which substances are acids?
2. Which substances are bases?
3. Why are indicators better at predicting an acid or base than litmus paper?
4. Make a pH scale and place the substances along the scale based on the acidity and basicity.
5. Based on the pH scale, which acid is the strongest and which acid is the weakest?
6. Based on the pH scale, which base is the strongest and which base is the weakest?