

Name: _____

Chemistry, Period: _____

Prelab Assignment: Titration of Vinegar

1. In this lab, you will perform a titration using sodium hydroxide and acetic acid (in vinegar). Write the balanced neutralization reaction that occurs between sodium hydroxide and acetic acid.

2. Specialized equipment is needed to perform a titration.
 - a. Consider the sodium hydroxide reactant.
 - Name the specialized device the sodium hydroxide is placed in. _____
 - Is the concentration of the sodium hydroxide known or unknown? _____
 - Is sodium hydroxide the analyte or the titrant? _____
 - b. Consider the acetic acid reactant.
 - What type of flask is the acetic acid placed in? _____
 - What volume of acetic acid is used? _____
 - What specialized device is used to obtain this precise volume? _____
 - Is the acetic acid the analyte or the titrant? _____

3. You will add sodium hydroxide to the acetic acid until all the acetic acid is consumed. This is a special point in the titration called the _____ point.

4. An indicator solution is used to indicate when all the acetic acid has been consumed and that the reaction is complete.
 - a. What is the name of the indicator solution? _____
 - b. Is this indicator mixed with sodium hydroxide or acetic acid? _____
 - c. How exactly does the indicator let you know when the reaction is complete?