

Name _____

Titration Virtual Lab

The acid-base titration computer simulation to accompany this tutorial is located at URL:

http://group.chem.iastate.edu/Greenbowe/sections/projectfolder/flashfiles/stoichiometry/a_b_phtitr.html

For this tutorial you will complete a strong acid vs. strong base titration experiment online. As you proceed, watch the pH at various points during the titration. You need to do the calculations.

Procedure:

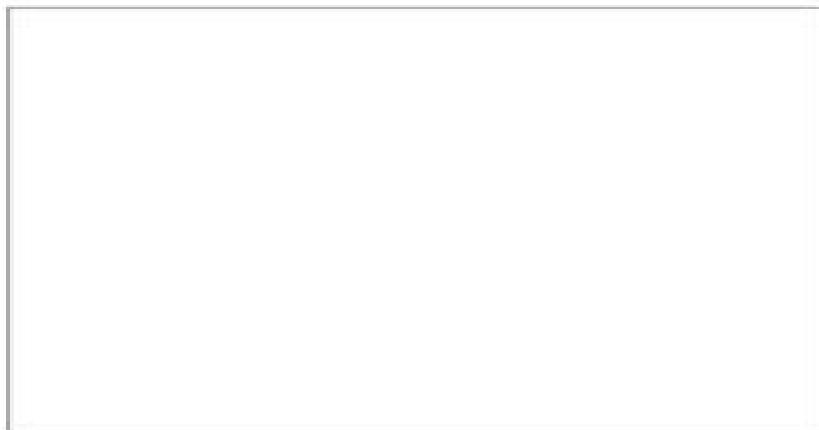
1. Enter the link above.
Or find the link on my 40S Chem page (mrstorie.wikispaces.com) entitled *Titration Virtual Lab*.
2. Select "Strong Acid vs. Strong Base."
3. Fill the burette with base.
4. Select **HNO₃** as the acid and **KOH** as the base.
The computer will automatically assign a molarity and a volume for the acid.

Record the molarity and volume (convert to litres) for the acid:

_____ M _____ L

5. Select the indicator phenolphthalein.
6. Click on graph. That is the expected graph of *pH* vs. *volume of base added*.

Make a detailed sketch of the graph below and label the *equivalence point* on the curve:



Virtual Acid Base Ph Titration Packet Answers

Thomas Lee Gummo



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