

Dr. Martyn Poliakoff
Proudly Presents:

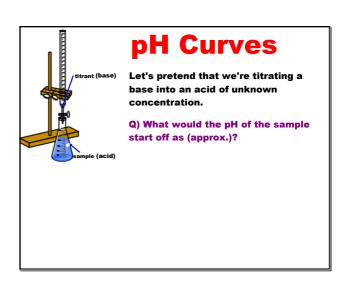
The Periodic Table
Movie of the Day!!!

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POS Checklist:

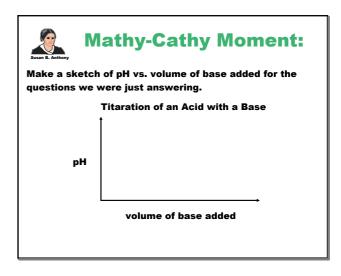
- draw and interpret titration curves, using data from titration experiments involving strong monoprotic acids and strong monoprotic bases
- describe the function and choice of indicators in titrations
 identify equivalence points on strong monoprotic acid-strong monoprotic base titration curves and differentiate between the indicator end point and the equivalence point.
- predict the approximate equivalence point for a strong monoprotic acid-strong monoprotic base titration and select an appropriate indicator

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- Q) As more base is added, what would happen to the pH?
- Q) What is the final pH of the solution like when all of the acid has been neutralized?
- Q) If we over-shot the endpoint, what would the pH be (approx.)?



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In an acid-base titration, the pH is constantly changing. This change can be shown using a pH curve.

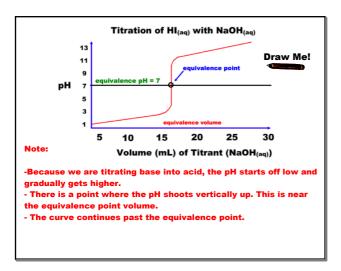
We could make a graph of pH by measuring the pH with a device such as a pH meter.

http://www.chem.uoa.gr/applets/Apple

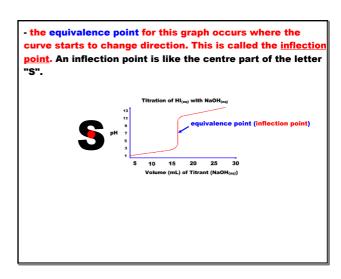
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For example, consider the titration of an acid of unknown concentration, HI_(aq) with a base of known concentration, NaOH_(aq).

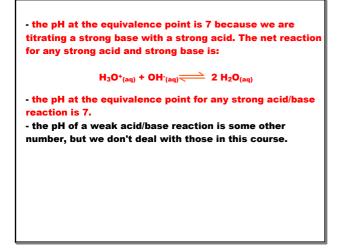
Let's look at a pH curve for this reaction:

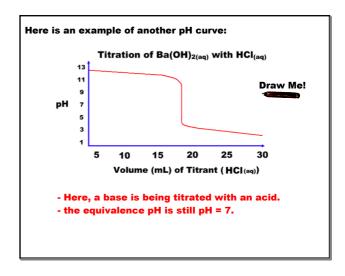




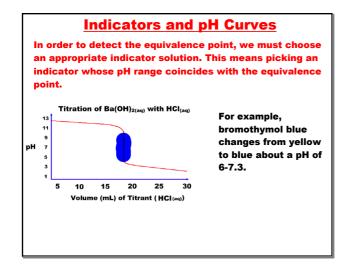


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