

Neutralisation Curves and indicators

Pre-lesson assignment: Textbook page 340-342

Define the following terms

- pH titration curve
- Equivalence point
- End point

Make notes on Neutralisation curves and indicators

Use the following questions as guidance

1. Write a brief method for obtaining data for, and plotting, a pH titration curve.
2. Sketch a pH titration point, and label equivalence point, and the three main sections of the graph for addition of a base to an acid, and again for the addition of an acid to a base.
3. Using methyl orange as an example, show how indicators act as a weak acid and conjugate base pair.
4. Explain how equilibrium shifts as acid and alkalis are added to the weak acid.
5. Show that the end point pH for a titration will equal the pKa of the weak acid.