

Unit 12: Acids and Bases

Learning Targets

1. Identify a substance as an acid or a base.
 - I can recognize hydrogen as a distinguishing mark of an acid and hydroxide as a distinguishing mark of a base.
 - Given the formula of an acid or a base I can write the chemical reaction of it with water.
 - I can identify a substance as an acid or base on the basis of its pH.
2. Write chemical equations showing the reactions of acids and bases.
 - I can write balanced equations for the reaction of acids with hydroxides.
 - I can write balanced equations for the reaction of acids with carbonates.
3. Use pH to describe the acidity of a solution.
 - I can calculate the pH, pOH, $[H^+]$, and $[OH^-]$ of a solution.
4. Calculate the pH of a solution formed by mixing an acidic solution with a basic solution.
 - I can use titration data to determine the molarity of an unknown acid or base.