Year 7 | Acids, Alkalis and Mixtures | 15 Lessons

Aims: This unit of work is designed to introduce students to the key principles of acids, alkalis and mixtures.
Links to KS4:
Chapter 1 Chemistry – Mixtures
Chapter 4 Chemistry – Chemical Changes

Key Skills	Literacy Links:	Numeracy Links:
• To develop an understanding of Acids and Alkalis. • To develop an understanding of Mixtures. • To develop practical skills in a Science labs.	**Key Words:** **Acid, alkali, solvent, solute, pH, universal indicator, weak, strong.** Be able to read and use these keywords within Scientific situations both verbally and written.	Be able to use the pH scale to determine whether a substance is an acid or alkaline.

Assessment	Cross-Curricular Links
• *Pink sheet teacher assessed activity – Indicators.* • *50 mark test which will focus on the following key areas: Acid reactions, Neutralisation reactions, separating techniques, dissolving and pure substances.*	• Geography – Acid rain. • Food – Mixtures and emulsions. **SMSC opportunities and British values**

Opportunities for further learning

Homework for year 7 is set on a weekly basis. Below are a range of different activities which could be used throughout the unit.
Option 1: Find 20 substance at home – 10 acids and 10 alkalis.
Option 2: Create an instruction leaflet about how to test a substance to see if it is acidic or alkaline.
Option 3: Spellings
Option 4: Matching substances to pH
Option 5: Separating mixtures poster