

Chemistry and beyond – advanced

Sessions
Overview

Through a series of enrichment focused workshops, this course is designed to give an appreciation of how chemistry contribute to everyday applications and for pupils to gain an insight into a range of related careers.

Breakdown of sessions for the chemistry workshops:

Session 1: Diffusion

Learning opportunities include:

- What is diffusion?
- What is water?
- Solids, liquids and gases
- What is carbon?
- What are elements?

Session 2: Atoms, elements and compounds

Learning opportunities include:

- What is oxygen?
- What is nitrogen?
- What is hydrogen?

Session 3: The Periodic Table

Learning opportunities include:

- Separating mixtures
- Chemical reactions and test
- What are reactions?

Session 4: Types of reaction

Learning opportunities include:

- What is combustion?
- How to make CO₂
- Acids, alkalis and salts

Session 5: Acids and bases

Learning opportunities include:

- Metals
- Ceramics
- The earth

Session 6: The Rock Cycle

Learning opportunities include:

- Rocks
- What is carbon dioxide?
- What is methane?
- Fossil fuels