

# Chemistry KS4 Learning Journey



## Top 3 tips for parents and carers during KS4

- ✔ Buy a revision guide & scientific calculator.
- ✔ Use flashcards to test your child on recalling facts.
- ✔ Make sure you know what tier your child is sitting and make sure all 6 exam dates are recorded.



## What's your Plan A?

FE: A-Level Chemistry or BTEC Applied Science  
HE: Medicine, Dentistry, Pharmacy, Forensics  
Career: Food scientist, Vet, Engineer, Midwife, Optometry



## Online learning during KS4

[Seneca Learning](#)  
[Free Science Lessons](#)  
[GCSE Pod](#)  
[CGP App](#)  
[Primrose Kitten](#)



## PPE preparation for KS4

Identify command words in questions and make sure you know what they mean; make sure you can convert units; name equipment accurately; plot, describe and explain a variety of graphs.



## Study skills for KS4

Create flashcards of key definitions, use questions in each chapter in revision guide to develop recall, use writing frames on Google Drive to structure answers, complete past paper questions and use mark scheme, download spec to use as a checklist.

## Knowledge, skills and understanding

**Energy changes**  
Exothermic and endothermic reactions

Year 10

Year 10

**Chemistry of the atmosphere**

The composition and evolution of Earth's atmosphere, Greenhouse gases, Atmospheric pollutants

Year 10

**Chemical changes and Electrolysis**  
Reactivity of metals and acids  
Electrolysis of molten and aqueous substances

**Quantitative chemistry**  
Chemical measurements, conservation of mass and chemical equations. Use of amounts of substance in relation to masses of pure substances

Year 10

**Rate and extent of chemical change**  
Rates of reaction, Reversible reactions and dynamic equilibrium

Year 11

**Using resources**  
Earth's resources and sustainable development, Life cycle assessments, Potable water and waste water treatment

Year 10

**Chemical analysis**  
Purity, formulations and chromatography

Year 11

**Organic chemistry**  
Carbon compounds as fuels and feedstocks

Year 11