

## **AQA GCSE Chemistry Paper 2 Topic List**

### **Chapter 8 – Rates & Equilibrium**

Rate of reaction  
Collision theory and surface area  
The effect of temperature  
The effect of concentration and pressure  
The effect of catalysts  
Reversible reactions  
Energy and reversible reactions  
Dynamic Equilibrium  
Altering conditions

### **Chapter 9 – Crude oil & fuels**

Hydrocarbons  
Fractional distillation of oil  
Burning hydrocarbon fuels  
Cracking hydrocarbons

### **Chapter 10 – Organic Reactions**

*Reactions of the alkenes*  
*Structures of alcohols, carboxylic acids and esters*  
*Reactions and uses of alcohol*  
*Carboxylic acids and esters*

### **Chapter 11 – Polymers**

*Addition polymerisation*  
*Condensation polymerisation*  
*Natural polymers*  
*DNA*

### **Chapter 12 – Chemical Analysis**

Pure substances and mixtures  
Analysing chromatograms  
Testing for gases  
*Tests for positive ions*  
*Tests for negative ions*  
*Instrumental Analysis*

### **Chapter 13 – Earth's Atmosphere**

History of our atmosphere  
Our evolving atmosphere  
Greenhouse gases  
Global climate change  
Atmospheric pollutants

### **Chapter 14 – The Earth's resources**

Finite and renewable resources  
Water safe to drink  
Treating waste water  
Extracting metals from ores  
Life cycle assessments  
Reduce, reuse and recycle

### **Chapter 15 – Using our resources**

*Rusting*  
*Useful alloys*  
*The properties of polymers*  
*Glass, ceramics, and composites*  
*Making ammonia – the Haber process*  
*The economics of the Haber process*  
*Making fertilisers in the lab*  
*Making fertilisers in industry*

AQA GCSE Chemistry

Student Book

Topics List

Oxford University Press

*Italic Topics are GCSE Chemistry  
(Triple Science) only*

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