



# Gordon's School Chemistry Department

## GCSE - Curriculum Map



### Key Skills:

- Development of scientific thinking
- Planning investigations
- Developing experimental skills and strategies
- Recording data – tables and graphs
- Data analysis
- Data evaluation



### GCSE Exams

**Separate:**  
**C15 Using our resources**  
How are our major resources produced? What is the Haber process and why is it so important? How are metals made stronger? Plastics made hard or soft?

### Trilogy: Revision

**Separate:**  
**C14 The Earth's resources**  
Learn how we make drinkable water, purify metals and use finite and renewable resources.

**Trilogy:**  
**C12 The Earth's resources**  
Learn how we make drinkable water, purify metals and use finite and renewable resources.

**Separate:**  
**C13 Earth's atmosphere**  
Explore both the natural and man-made changes in the chemistry of the Earth's atmosphere.



### Y11 Mock Exams

### Key Terms:

- Accuracy
- Control variable
- Dependent variable
- Error
- Independent variable
- Precision
- Prediction
- Repeatable
- Reproducible
- Variable



### C8 Rates of reaction

How can we manipulate reactions to go faster? What are reversible reactions and how can we shift equilibrium?

### Y10 Mock: Paper 1

**C7 Energy changes**  
Why do some reactions feel hot, and others cold? How can we use these energy changes in real life?

**C4 Chemical calculations**  
Learn how simple maths can help scientists improve the yield of chemical reactions

**C6 Electrolysis**  
How can electricity be used to extract and purify metals?

**Recap of C3 Structure & Bonding.**

### Year 10

### How Science Works

Plan and carry out a series of investigations.

### Y9 Exams



Exam Specification Trilogy:



### Year 9

**C1 Atomic structure**  
Build on your knowledge and delve deeper into the world of sub-atomic particles.

**C2 The Periodic Table**  
Why was the periodic table such a scientific break-through? Learn about the history of this important chemical tool.

**C3 Structure & Bonding**  
How do atoms connect to each other, and why?

**C5 Chemical changes**  
How do chemists use reactions to obtain useful products / resources?



Exam Specification Separates:



Should this QR code not work, please click [here](#) to view the relevant specification.

### Command Words:

- Calculate
- Compare
- Complete
- Describe
- Determine
- Evaluate
- Explain
- Justify
- Predict
- State
- Suggest
- Use

Should this QR code not work, please click [here](#) to view the relevant specification.