

## PRIOR KNOWLEDGE

Knowledge and skills developed in KS3

Physics specific knowledge as detailed in our KS3 curriculum maps.

Skills developed:

- Knowledge of key facts
- Describing concepts using models
- Scientific method linking experiment to hypothesis
- Describing, explaining and sequencing steps in a process
- Linking causes to effects
- Practical skills (required practical)
- Interpretation of data in tables and graphs
- Numerical and logic skills
- Research skills

# COURSE DELIVERY & STRUCTURE

How the curriculum is delivered

Lessons: 1.5 hours a week / 2 hours a week

Grouping: Setting based on previous year results and teacher assessment / Separate Science Class

Structure: Theory lessons and practical based lessons

Prep: 1 prep per week (2 for separate) with 1 assessed homework per chapter

#### QUALIFICATION

Exam Board, aim and objectives

AQA GCSE (9-1) in Combined Science (8464), GCSE (9-1) in Physics (8463)

Qualification aims and objectives:

GCSE specifications in combined award science should enable students to:

- develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics
- develop understanding of the nature, processes and methods of science, through different types of scientific enquiries that help them to answer scientific questions about the world around them
- develop and learn to apply observational, practical, modelling, enquiry and problem-solving skills, both in the laboratory, in the field and in other learning environments
- develop their ability to evaluate claims based on science through critical analysis of the methodology, evidence and conclusions, both qualitatively and quantitatively

### ASSESSMENT

Internal monitoring and final assessment Internal Assessment: End of Topic Tests for each chapter, Year 10 Exam, Yr 11 Mock Exam

Final assessment: GCSE Exams: 2 exams - 1 hour 15 mins each / 2 exams - 1 hour 45 mins each

#### **BREADTH**

Opportunities, trips, wider reading, cultural capital That assessment. Good Exams - Thou 15 mins each / 2 exams - Thou 45 mins each

	SUBJECT KNOWLEDGE Overview of topics	SKILLS & STRATEGIES Procedural knowledge
Autumn Y10	P6 - Molecules and Matter P4 - Electric Circuits	Knowledge of key facts Analysing data Mathematical skills in Science Practical skills
Spring Y10	P5 - Electricity in the Home P1 - Energy	Knowledge of key facts Analysing data Mathematical skills in Science Practical skills
Summer Y10	Study Leave & Exam P2 - Energy Transfer P14 - Light P16 - Space	Knowledge of key facts Analysing data Mathematical skills in Science Practical skills Independent research Presentation skills
Autumn Y11	P7 - Radioactivity Study leave & Mock Exam	Knowledge of key facts Independent research Presentation skills Analysing data Mathematical skills in Science
Spring Y11	P8 - Forces in Balance P10 - Forces and Motion <b>P11 - Force and Pressure</b>	Knowledge of key facts Analysing data Mathematical skills in Science Practical skills Independent research
Summer Y11	P13 - Electromagnetism Revision Study leave & Exams	Knowledge of key facts Analysing data Mathematical skills in Science