

PRIOR
KNOWLEDGE

Knowledge and skills developed in KS3

Biology 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 / 2.5 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 science) with 1 assessed homework per chapter

QUALIFICATION

Exam Board, aim and objectives

AQA GCSE (9-1) in Combined Science (8464), GCSE (9-1) in Chemistry (8461)

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 (separate science)

BREADTH

trips, wider reading, cultural capital

Opportunities,

	SUBJECT KNOWLEDGE Overview of topics	SKILLS & STRATEGIES Procedural knowledge
Autumn Y10	B4 Organising plants and animals B5 Communicable diseases B6 Treating and preventing diseases RP 2 Microbiology (separate science)	 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
Spring Y10	B7 Non-communicable disease B8 Photosynthesis RP6 Photosynthesis B9 Respiration B17&18 Additional Ecology topics (separate science) RP10 Decay	 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
Summer Y10	B3 Organisation and the digestive system RP4 Food tests RP5 Enzymes	 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
Autumn Y11	B10 Human Nervous system RP7 Reaction time B11 Hormonal control RP9 Plant responses (separate science) B12 Homeostasis in action (separate science)	 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
Spring Y11	B12 Reproduction (B13 for separate science) B13 Variation and evolution (B14 for separate science) B14 Genetics and evolution (B15 for separate science)	 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
Summer Y11	Revision Study Leave and GCSE exams	 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