

**Course Description**

In Year 9 most of our pupils will study Edexcel Combined Science. This is a two-GCSE sized (double award) qualification covering the three science disciplines of Biology, Chemistry and Physics. Students are awarded a grade based on their overall performance across these three disciplines.

**Topics Covered**

## Biology 1

- Key Concepts
- Cells and Control
- Genetics
- Natural Selection and Genetic Modification
- Health, Disease and the Development of Medicines

## Biology 2

- Key Concepts
- Plant Structures and their Functions
- Animal Coordination, Control and Homeostasis
- Exchange and Transport in Animals
- Ecosystems and Materials Cycles

## Chemistry 1

- Key Concepts in Chemistry
- States of Matter and Mixtures
- Chemical Changes
- Extracting Metals and Equilibria

## Chemistry 2

- Key Concepts in Chemistry
- Groups in the Periodic Table
- Rates of Reaction and Energy Changes
- Fuels and Earth Science

## Physics 1

- Key Concepts in Physics
- Motion and Forces
- Conservation of Energy
- Waves
- Light and the Electromagnetic Spectrum

## Physics 2

- Key Concepts of Physics
- Energy
- Forces Doing Work
- Forces and their Effects
- Electricity and Circuits
- Magnetism and the Motor Effect
- Electromagnetic Induction
- Particle Model
- Forces and Matter

## **Exam Details**

Students will sit six exams at the end of the course as shown below;

- Biology 1 – 1hr 10, 60 marks
- Chemistry 1 – 1hr 10, 60 marks
- Physics 1 – 1hr 10, 60 marks
- Biology 2 – 1hr 10, 60 marks
- Chemistry 2 – 1hr 10, 60 marks
- Physics 2 – 1hr 10, 60 marks

There will be Foundation Tier and Higher Tier papers. Students will sit all six exams at the same tier.

Foundation tier is for students who are aiming for grades 1–5, and Higher tier is for students who are aiming for grades 4–9.

As it's a double award qualification, students will receive two grades. These grades could be the same number, e.g. 6, 6 or 7, 7. However, some students may receive a grade with adjacent numbers, e.g. 6, 7. This will signify a student who is at an intermediate point between the standard required for a 6, 6 grade, and the standard required for a 7, 7 grade.

Assessments will all follow the same format, regardless of subject or tier.