

Science Department Curriculum Overview

Key Stage 3 – Y7 and Y8

At KS3 the teaching sequence is mapped against the Cognitive Progression Plans provided through the Best Evidence Science Teaching program undertaken by York University and published via STEM.

Year 7. The year is divided into two halves.

First half:

- Safety in the laboratory
- The Olympics
- Forensics
- Hospitals

Second half:

- Going to Mars
- Ancient Worlds
- The Oceans

Year 8

First half:

- In the home
- Astronaut School
- Living in the Arctic

Second half:

- At the Zoo
- Going on Holiday
- The Alchemist

Key Stage 4 – Y9, Y10 and Y11

GCSE study starts in Y9. All students follow the same curriculum with content specific to the Triple Award course delivered to all. Students opt for Trilogy or Triple Award at the end of Y9. Triple award is open to all students across the full ability range.

Year	Physics	Chemistry	Biology
9	Energy Electricity	Atomic Structure and the Periodic Table Bonding, structure and the Properties of Matter	Cell Biology Organisation and Systems
10	Particle Model of Matter Radiation and the nuclear atom Forces	Quantitative Chemistry Chemical Changes and Reactions of Acids Electrolysis Rates of Reaction and Energy changes.	Infectious Disease Bioenergetics Homeostasis
11	Waves Magnetism and Electromagnetism Space (Triple only)	Analysis and the Earth's Resources Organic Chemistry	Inheritance and selection Ecology