

KS4 – After the development of the new GCSEs which we started teaching in Sept 2015 we follow the AQA scheme.

This a rigorous and practical based scheme that we aim to teach inside an enquiry lead curriculum.

We follow two pathways inside this scheme;

Combined

2 GCSEs

Most students nationally will follow this course and it can lead to A level sciences. All three sciences are combined in distinct modules to complete six exams leading to two GCSEs.

Over our three year course the following modules will be taught alongside twenty one required practicals.

Biology

- 1 Cell biology
- 2 Organisation
- 3 Infection and response
- 4 Bioenergetics
- 5 Homeostasis and response
- 6 Inheritance, variation and evolution
- 7 Ecology
- 8 Key ideas

Chemistry

- 9 Atomic structure and the periodic table
- 10 Bonding, structure, and the properties of matter
- 11 Quantitative chemistry
- 12 Chemical changes
- 13 Energy changes
- 14 The rate and extent of chemical change
- 15 Organic chemistry
- 16 Chemical analysis
- 17 Chemistry of the atmosphere
- 18 Using resources
- 19 Key ideas

Physics

- 20 Energy
- 21 Electricity
- 22 Particle model of matter
- 23 Atomic structure
- 24 Forces
- 25 Waves
- 26 Magnetism and electromagnetism
- 27 Key ideas

Single Sciences

3 GCSEs

At the end of Y8 we select a cohort of students who will pursue three GCSEs inside the single science award. They will complete all the combined material as well as extra content in biology, chemistry and physics. These students will also complete seven extra required practicals. The course leads to six exams which are longer than those in the combined course.

Biology

1. Cell biology
2. Organisation
3. Infection and response
4. Bioenergetics
5. Homeostasis and response
6. Inheritance, variation and evolution
7. Ecology
8. Key ideas

Chemistry

- 1 Atomic structure and the periodic table
- 2 Bonding, structure, and the properties of matter
- 3 Quantitative chemistry
- 4 Chemical changes
- 5 Energy changes
- 6 The rate and extent of chemical change
- 7 Organic chemistry
- 8 Chemical analysis
- 9 Chemistry of the atmosphere
- 10 Using resources
- 11 Key ideas

Physics

- 1 Energy
- 2 Electricity
- 3 Particle model of matter
- 4 Atomic structure
- 5 Forces
- 6 Waves
- 7 Magnetism and electromagnetism
- 8 Space physics (physics only)
- 9 Key ideas