

## Science – Curriculum Plan 2018 - 2021

### Teaching, Learning and Curriculum Principles

The Science department provides students with a range of opportunities to explore and investigate a range of concepts. We promote learning through a range of strategies such as practical work, group discussions, problem solving and transforming information. The skills and scientific concepts are set in contexts where pupils can apply knowledge and skills to a real life situation.

At the end of Year 9 pupils can choose to study:

1. AQA Trilogy Combined Science GCSE (2 GCSE grades)
2. AQA Trilogy GCSE Chemistry, Biology, Physics (3 GCSE grades)

Year	Autumn Term	Spring Term	Summer Term
7	Speed/Gravity Particle Model Movement and Cells Energy	Metals/Acids and Alkalis Variation/Reproduction Light/Sound Universe and Earth Structure	Interdependence/Plant Reproduction Electricity/Voltage, Current
8	Breathing/Digestion Chemical Energy/Reactions Contact Forces/Pressure Elements/Periodic Table	Photosynthesis/Respiration Magnetism Energy Stores and Heating and Cooling	Climate and Earth's Resources Evolution and Inheritance Waves and Wave Properties
9	Energy Cells Atomic Structure	Electricity Structure and Bonding Photosynthesis	Particle Model Quantitative Chemistry Moving and Changing Materials
10	Atomic Structure and Radiation Chemical Changes Health Matters Coordination and Control Energy in Chemistry	Forces Rates of Reaction Genetics Organic Chemistry	Waves and Electromagnetic Spectrum Evolution
11	Analysis Atmosphere Magnetism and Electromagnetism Ecology	Using Resources Revision	Revision
11 (Triple Science)	Analysis Atmosphere Magnetism and Electromagnetism Ecology	Using Resources Space and Universe Revision	Revision

## Assessment

### Year 7 and 8

Students will be assessed on overall knowledge, understanding and application of skills. These assessments will be end of topic tests, written and practical reviews. The end of topic tests will be based on multiple choice, short answer, extended response and required practical lessons.

### Year 9 and 10

Students will be assessed on quality of written communication questions, required practical's and frequent low risk tests. This will provide lots of practise for students to develop knowledge development over time for AQA Trilogy GCSE Science or Separate Science qualifications.

### Year 11

Students will be assessed on quality of written communication questions, practical write-ups and frequent low risk tests. The assessment objectives are:

AO1 Content (40%)

AO2 Application of knowledge to a different context (40%)

AO3 Analysis and Evaluation (20%)

### **Post-16**

Currently, we offer two A-Level qualifications in Science:

AQA Chemistry GCE

OCR Biology GCE