



OLD BUCKENHAM
HIGH SCHOOL

Be the best we can be

OBHS KS4 Subject Information

(Core subject)

Title of Course:

GCSE Separate Sciences and
GCSE Science Trilogy (Double Science)

Head of Faculty: Mrs Jennifer Clark



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Course Overview

Why study Science?

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Science subjects are popular choices for OBHS students. Students completing science GCSE to a grade 6 or above can choose to study Science A-level in a variety of diverse contexts including the core sciences, physiology, psychology, sports science, engineering, architecture, product design and forensic science.

Science is also required for many other courses, particularly vocational courses such as nursing, animal care and engineering, electronics, health and social care and vehicle maintenance.

A good grade in GCSE Science will enable you to access a wide range of exciting post 16 options, expanding your choice as you take the next steps in education.

Even if your ambitions lay away from science, the science qualifications are well respected and offer skills such as collaboration, planning, leadership and self motivation that are high valued by employers.



Course Overview

Examination Board: AQA

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Year group	Biology units	Chemistry units	Physics units
Year 9	B1 Cell structure and transport B2 Cell division B3 Organisation and digestive system B4 Organizing animals and plants	C1 Atomic structure C2 The periodic table C3 Structure and bonding C4 Chemical calculations	P1 Conservation and dissipation of energy P2 Energy transfer by heating P3 Energy resources P4 Electrical circuit
Year 10	B5 Communicable diseases B6 Preventing and treating disease B7 Non-Communicable diseases B8 Photosynthesis B9 Respiration B10 The human nervous system B11 Hormonal coordination	C5 Chemical changes C6 Electrolysis C7 Energy changes C8 Rates and equilibrium C9 Crude Oil and fuels C10 Organic reactions (Separate Science) C11 polymers (separate science)	P5 Electricity in the home P6 Molecules and matter P7 Radioactivity P8 Forces in balance P9 Motion P10 Force and motion P11 Force and pressure (Separate Science) P12 Wave properties
Year 11	B12 Homeostasis B13 Reproduction B14 Variation and evolution B15 Genetics and evolution	C12 Chemical analysis C13 The Earths Atmosphere C14 The Earths resources C15 Using our resources (Separate Science)	P13 Electromagnetic waves P14 Light (Separate science) P15 Electromagnetism P16 Space (Separate Science)



Course Overview

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Examinations and Assessments

- Students undertake prior knowledge assessments before starting each module to ascertain any pre-existing gaps in knowledge or skills
- At the end of the planned sequence of lessons (module) students undertake a formative assessment, which is used for personal gap analysis and DIRT work
- Summative assessments take place at the end of each half term to ascertain overall subject progress.

In year 11

- Two mock exam series in November (paper 1 mocks) and March (paper 2 Mocks)
- Final exams in June
- No coursework element



Course Overview

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Examinations and Assessments

Year 11 final examinations

<https://www.aqa.org.uk/subjects/science/gcse>

Question	GCSE Science Trilogy	GCSE Separate sciences
How many papers will I take?	6 – Two biology, Two chemistry and 2 Physics. These are designated as papers 1 and two. Each paper examines part of the curriculum.	
How long are exam papers?	Trilogy papers are 1 hour and 15 minutes long (75 minutes)	Separate science papers are 1 hour and 45 minutes long (105 minutes) – as there is more content to examine.
When are exam papers sat?	Exam papers for each subject (i.e. Chemistry paper 1) for Trilogy and Separate science chemistry are sat at the same time as each other in June.	

Each paper consists of 15% knowledge recall, such as formulae, equations, facts, and 85% Data analysis, making conclusions and evaluating experiments.

There are Physics and Chemistry equations that you will have to memorize and 22 required practical experiments that you must undertake and comment on in exams.