

What's it worth?

Course	What qualifications do I get
Separate Science	3 x GCSEs (Biology, Chemistry and Physics)
Combined Science	2 x GCSEs (Combined Science)

Why do it?

- Ever wondered how life began? Or how genetic engineering can prolong our lives or maybe you were just curious as to how sun tan lotion works or how plastic can be made from oil? Studying science will broaden your understanding of the world around us whilst teaching you how to apply logic and reason to solve a problem, analyse data or make judgements about information and reports in the media.
- The skills gained in studying science are needed in a range of jobs as diverse as Beauty Therapist and Astronaut. Science is useful for the majority of careers – studying Science will widen options later in life, not narrow them down.

What will you do?

Students opt to study Separate Science, or will study Combined Science. All courses involve the study of biology, chemistry and physics. Separate Science is particularly suitable for students wishing to study Science to a higher level.

What do you need?

Students not opting for Separate Science will study Combined Science – this course still requires a willingness to work hard. Separate Science tackles each of biology, chemistry and physics in more depth, and 40 – 50% more hours are devoted to Separate Science to enable this. Separate Science thus requires a higher level of commitment than the Combined Science course – but provides the best foundation for post-16 Science study.

For further details see Mr D Bird

Subject

Combined Science
(2 GCSEs)

Exam Board

Edexcel

Exam Papers

100% Terminal exams
6 x 70 minute, 60 mark papers

Separate Science

Edexcel

100% Terminal exams

(3 GCSEs)

6 x 105 minute, 100 mark papers

The course is separated into topics, with students who opt for triple science studying each topic in greater depth, and in some instances additional topics which can be identified through the curriculum overviews.

	Biology	Chemistry	Physics
Paper 1	SB1 Key concepts in Biology	SC1 States of Matter	SP1 Motion
		SC2 Methods of Separating	
	SB2 Cells and Control	SC3 Atomic Structure	SP2 Motion and Forces
	SB3 Genetics	SC4 The Periodic Table	SP3 Conservation of Energy
	SB4 Natural Selection & Genetic Modification	SC5 Ionic Bonding	SP4 Waves
		SC6 Covalent Bonding	
		SC7 Types of Substance	
	SB5 – Health, Disease and the Development of Medicine	SC8 Acids and Alkalis	SP5 Light and EM Spectrum
		SC9 Calculations Involving Masses	SP6 Radioactivity
		SC10 Electrolytic Processes	SP7 Astronomy
		SC11 Obtaining and Using Metals	
		SC12 Reversible Reactions & Equilibria	
		SC13 Transition Metals, Alloys and Corrosion	
		SC14 Quantitative Analysis	
Paper 2	SB1 Key concepts in Biology	SC15 Dynamic Equilibria, Calculations Involving Volumes of Gases	
		SC16 Chemical Cells and Fuel Cells	
		SC17 Groups in the Periodic Table	SP8 Energy- Forces Doing Work
		SC18 Rates of Reaction	SP9 Forces and their Effects
		SC19 Heat Energy Changes in Chemical Reactions	

	SB6 Plant Structures and their Functions	SC20 Fuels SC21 Earth and Atmospheric Science	SP10 Electricity and Circuits SP11 Static Electricity
	SB7 Animal Coordination, Control and Homeostasis	SC22 Hydrocarbons SC23 Alcohols and Carboxylic Acids SC24 Polymers	SP12 Magnetism and the Motor Effect SP13 Electromagnetic Induction
	SB8 Exchange and Transport in Animals	SC25 Qualitative Analysis: Test for Ions SC26 Bulk and Surface Properties of Matter including Nanoparticles	SP14 Particle Model SP15 Forces and Matter
	SB9 Ecosystems and Material Cycles		