

Combined Biology Year 11 Curriculum Overview

What is the Year 11 Biology curriculum aiming to achieve?

What do we want our Year 10 Scientists to be like?	How are we building on prior learning?	How can parents/carers support their child's learning?
<ul style="list-style-type: none"> • Be excited and enthusiastic about the scientific world around us • Be safe and competent practical scientists • Be able to make links between observations and scientific theory • Be good verbal and written communicators using key terms • Have furthered their understanding of key concepts in Biology 	<ul style="list-style-type: none"> • We will make links to and build on the Biology topics from Year 10 and KS3 • We will build on our working scientifically skills in the areas of analysis, communication, enquiry and problem solving 	<ul style="list-style-type: none"> • Talk to the pupils about what they are learning in lesson • Be curious about the world around you and discuss with your child • Support with homework tasks • Help consolidate learning e.g. BBC Bitesize or watching scientific documentaries • Purchase CGP revision guide and encourage use of GCSE Pod

How are we organising the Year 11 Biology curriculum?

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topics	Variation and evolution	Reproduction	Homeostasis Nervous system	Ecology	Revision programme Paper 1	Revision programme Paper 2
Threshold Concepts	How the genome and environment influence the development of an organism's phenotype	Meiosis results in unique gametes and the impact of genetic mutations. DNA and HGP.	How cells in the body are kept within narrow limits. The human endocrine system How the structure of the nervous system is adapted for function	Cycling of material in the world. Using the environment in a sustainable way.		
Skills	Explain the benefits and risks of selective breeding, antibiotic resistance, GMOs	Explain the ethical issues behind HGP and embryo screening	RP 6 Reaction time	Understand the global concerns of deforestation and climate change		
Enrichment within the curriculum	Practical work will be conducted wherever possible. Personalised Learning Checklists for all units of work					
Cross curricular links	<ul style="list-style-type: none"> • Ecology topics also covered in GCSE Geography 					
Extra-curricular opportunities	Different Biology staff are available each week at Year 11 Core Revision Café. However, there are many places you can get some extra help with Biology. GCSE Pod is excellent, and there are hundreds of pods to support you if you are on AQA Combined (Trilogy). The CPG revision guides are also an excellent place to go if you are revising for tests / exams or need some help with homework tasks. These are available on Parent Pay and you can collect your guides if you bring a copy of your receipt to the Science workroom. Helpful websites 1. BBC Bitesize Biology : https://www.bbc.co.uk/bitesize/examspecs/zpgcbk7 Combined Biology Trilogy : https://www.bbc.co.uk/bitesize/examspecs/z8r997h					

	<p>2. Seneca learning Biology : https://app.senecalearning.com/classroom/course/6b76a6e0-cf79-11e7-83a9-29a486db2c9f/section/197216e0-d983-11e7-9bd5-53995c3110f0/session Combined Biology Trilogy Foundation : https://app.senecalearning.com/classroom/course/88066eb0-1d8c-11e8-a6da-15f18bba751c/section/6dce893a-4d82-448a-8fe6-970454d5b8b7/session Higher : https://app.senecalearning.com/classroom/course/891f0540-1d79-11e8-a6da-15f18bba751c/section/7cdcc960-1d7a-11e8-a6da-15f18bba751c/session</p>
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What are the intended outcomes of the Year 11 Biology curriculum?

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Opportunities to show progress (Assessments)	End of topic test Variation and evolution CTG task Homework tasks	End of topic test Reproduction CTG task Homework tasks PPE1	End of topic test Homeostasis CTG task Homework tasks PPE2	Revision programme with regular revision tests	Paper 1 and paper 2 examinations	
Impact on personal development (SMSC)	<i>A number of sensitive topics are covered this year that allow students to deepen their understanding and form their own balanced views. These include the use of contraception, fertility treatment, the ethics of genetic engineering, selective breeding and ethics of embryo screening in prevention of genetic diseases.</i>					
Preparation for the next stage of education	<i>These topics are examined in Paper 2 GCSE exams. All these topics are studied again in greater depth at A level</i>					