



	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
7	Prior to year 10, students study all sciences in a blended approach. The route below is only for those students who select to study the triple science route.					
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10	Photosynthesis, respiration and metabolism, Microscopes	Cell biology and mitosis Digestion, heart, blood and health	Plant tissues and systems, infectious diseases, human defence systems and vaccination, Plant diseases	ecology	Homeostasis – the brain and the eye	Homeostasis – controlling blood glucose, contraception, the kidney and plant hormones
11	Genetics, genetic disorders, evolution and Selective breeding,	genetic engineering, evolution and biotechnology	Hormones, lifestyle, cancer and CHD	Human contraception and infertility, the brain and the kidney	Exam Preparation	
12	Biological molecules and cell structure	Exchange, digestion and transport across cell membranes	Mass transport in plants and animals	Immunity, DNA, genes and chromosomes	Protein synthesis, genetic diversity and adaptation	Biodiversity and species richness, then begin year 13 content
13	Photosynthesis and respiration	Response to stimuli, nerves, muscles, energy and ecosystems	Homeostasis and inheritance	Gene expression, populations and ecosystems	Exam Preparation	
	Curriculum Rationale: In science at Barr Beacon School, we intend to send pupils out into the world knowing how it works. Our science curriculum provides pupils with the scientific knowledge and experiences which will interest them in the scientific world. We aim to empower them to thrive in a scientific workplace or work outside of science with a greater understanding of the world around them. A greater knowledge of how the world around them works will also allow them to make more informed contributions to our democratic society during their life at Barr Beacon and beyond.					