

Archbishop Temple Church of England High School's Science Department's - Biology 5 year curriculum.

		Autumn		Spring		Summer	
		7 weeks	8 weeks	6 weeks	6 weeks	6 weeks	7 weeks
Year 7	Unit	Cells (GCSE RP1: Microscopy) Structure and function of body systems			Reproduction		
	Assessment	Selection of Doodle, Educake, Quizlet, Quizizz questions. Practice Exam style questions. Teaching pupils exam and revision techniques.			Selection of Doodle, Educake, Quizlet, Quizizz questions. Practice Exam style questions. Teaching pupils exam and revision techniques.		
	Skills	Cells: Using a microscope, Magnification calculations, drawing biological diagrams. Body systems: Pie charts, scientific models,			Reproduction: Comparisons and comparative language.		
Year 8	Unit	Health and Lifestyle Ecosystem Processes			Adaptations and inheritance		
	Assessment	Selection of Doodle, Educake, Quizlet, Quizizz questions. Practice Exam style questions. Teaching pupils exam and revision techniques.			Selection of Doodle, Educake, Quizlet, Quizizz questions. Practice Exam style questions. Teaching pupils exam and revision techniques.		
	Skills	Health and Lifestyle: Qualitative tests, analysing data, scientific models, asking scientific questions Ecosystem Processes: Scientific writing, scientific diagrams.			Adaptations and inheritance: Analysing data, scientific observations.		
Year 9	Unit	Cell biology: Cell Structure	Cell biology: Cell structure Cell biology: Cell division	Cell biology: Cell division Cell biology: Transport in cells	Cell biology: Transport in cells	Organisation: The human digestive system	Organisation: The human digestive system.
	Assessment	Doodle, Educake, Quizlet, Quizizz. Practice exam questions, throughout the year.		January : Options exam (Cell structure and cell division)			June : Setting exam (All cell biology, Organisation - digestion theory only)
	Skills	RP1: Microscopy	RP2: Microbiology (Options only topic covered by all pupils.)	RP3: Osmosis			RP4: Food tests RP5: Effect of pH on enzymes If time: RP10 Decay (Milk)
Year 10	Unit	Organisation: Breathing, Heart and blood vessels, blood, CHD.	Organisation: Plant tissues and organ systems. Infection and response: Communicable diseases and drugs.	Infection and response: Drugs. Monoclonal antibodies (Options pupils only) Bioenergetics.	Ecology: Adaptations, interdependence and competition. Organisation of an ecosystem.	Ecology: Organisation of an ecosystem: Biodiversity. Trophic levels & food production (Options groups only)	Homeostasis and response: Plant hormones - triple biology only Hormonal coordination in human reproduction, contraception (All pupils) infertility (HT only)
	Assessment	Doodle, Educake, Quizlet, Quizizz. Practice exam questions, throughout the year.		Practice Paper 1: Cell biology, Organisation, Infection and response, Bioenergetics (Exam or group work)		May: Year 10 Exams - Full paper 1 exam.	
	Skills	Throughout the year exam questions are modelled and explained, including command words.		RP6: Photosynthesis	RP9: Field investigations (weather dependent)	RP9: Field investigations (All). RP10 Decay (Biology options groups only).	RP8: Germination (Biology options groups only.)
Year 11	Unit	Hormonal control in humans (endocrine, blood glucose, water and nitrogen.) negative feedback. Homeostasis and response: Homeostasis, the human nervous system. Brain, eye and body temperature (Options only)	Inheritance, variation and evolution: Reproduction, Variation and evolution Review paper 1 content, including required practical activities.	Inheritance, variation and evolution: Variation and evolution Inheritance, variation and evolution: Classification			
	Assessment	RP7: Reaction times Doodle, Educake, Quizlet, Quizizz. Practice exam questions, throughout the year.	Mock exams - Full paper 1 (Cell biology, Organisation, Infection and response, Bioenergetics.) Part paper 2 - Content covered so far.	Review mock exams.	Practice paper 2: Homeostasis and Past paper 1 and 2 questions.	Final GCSE Exams or COVID Teacher assessments	
	Skills	Throughout the year exam questions are modelled and explained, including command words.	Required practical activities reviewed.				