



Year 11- Science Curriculum Plan Overview

Year 11 - GCSE Biology				
Term	Topic	Learning	How can parents' best support	Key Vocabulary
Autumn 1	Cell Biology Organisation	<ul style="list-style-type: none"> Cell Structure Investigating cells Cell Division Cell Transport Level of Organisation Digestion Blood and Circulation Non-Communicable Disease Transport in Plants 	<p>Discuss healthy living, keeping fit and the long term benefits.</p> <p>Take part in a family physical activity that is appropriate and maintainable for your family.</p> <p>Discuss the importance of a healthy mental and physical health.</p>	<p>membrane,nucleus, cytoplasm, mitochondria, chloroplast,</p> <p>Brain, eye, liver, testes, ovaries, stomach, heart, kidney, lungs, white blood cells, red blood cells, plasma, platelets, oesophagus, small intestine, large intestine, pancreas, enzymes, amylase lipase, protease, water, glucose, balanced diets, nutrition, cancer, obesity, sensory, motor, sense, organ, effector, relay neurons, spine, spinal cord, brain,</p>
Assessment:				
Autumn 2	Infection and Disease Photosynthesis	<ul style="list-style-type: none"> Pathogens and Disease Human Defence against Disease treating Disease Plants Disease Photosynthesis Respiration and Exercise 	<p>Watch documentaries on staying healthy including healthy eating and healthy lifestyles.</p> <p>and Watch news updates on Coronavirus and discuss prevention of disease.</p> <p>Watch documentaries on Vaccine development.</p> <p>Discuss where our food comes from.</p> <p>Watch gardening and farming programmes to become familiar with plant terms and techniques used for propagation and for increasing growth/yields.</p> <p>Plant your own vegetables at home, discuss possible plant disease.</p>	<p>antibiotics, drug trials, virus, bacteria, white blood cells, toxin, protists, Salmonella, Tobacco mosaic virus, aids, Covid, Vaccinations</p> <p>Flu, Rose black spot.</p> <p>respiration, carbon dioxide, oxygen, photosynthesis</p>
Assessment:	GCSE practice paper 2			
Autumn 1	Inheritance, Variation and Evolution	<ul style="list-style-type: none"> Variation Evolution Speciation 	If appropriate discuss characteristics in your family and their family tree.	variation, genetic, environmental, genes,

	Homeostasis and response	<ul style="list-style-type: none"> • Selective Breeding • Homeostasis • Diabetes 	Watch nature and farming documentaries to identify the whole range of diversity on planet Earth and in the UK.	DNA, chromosomes, adaptation, survival of the fittest, sexual reproduction, asexual reproduction, cloning, genotype, phenotype, familial, traits, species
Assessment:				
Autumn 2		<ul style="list-style-type: none"> • Hormones • Reproduction • Plant Hormones 	Discuss growing up and the changes hormones have on our bodies.	Endocrine, pancreas, pituitary, oestrogen, progesterone, insulin, control, blood stream, regulation. contraception, auxin, tropism, phototropism, geotropism, hydrotropism
Assessment:	GCSE practice paper 1			
Summer 1	Control words Revision techniques Exam practice	Revision techniques. Seneca and GCSE pod.	Wellbeing and revision strategies for individual.	Well being, Home school balance,
Assessment:				
Summer 2	Support transition to College	External Examinations		