

Year 10- Science Curriculum Plan Overview

		Year 10 - G	CSE New Content	
Term	Topic	Learning	How can parents' best support	Key Vocabulary
Autumn 1	Cell Biology Organisa tion	 Cell structure Microscopy Cell Division Cell Transport Level of Organisation Digestion 	Grow your own vegetables or discuss plant growth and needs in the garden. Watch Gardening shows or CountryFile How does the plant get water? How does it grow a root vegetable?	Membrane, vacuole, cell wall, chloroplast, nucleus, mitochondria, ribosomes, meiosis, cloning, mitosis, tissues, organs, brain, stomach, heart, liver, intestines, eyes, ears, muscles, bones, enzymes, proteins, protease, lipase, fats, amylase, carbohydrates, minerals, vitamins, osmosis, active transport.
Assessment:	_			
Autumn 2 Assessment:	Infection and Disease Photosyn thesis	 Blood and Circulation Non-Communicable Disease Transport in Plants Pathogens and Disease Human Defence against Disease Plants Disease Photosynthesis Respiration and Exercise 	Discuss healthy living, keeping fit and the long term benefits. Take part in a family physical activity that is appropriate and maintainable for your family. Discuss the importance of a healthy mental and physical health. Discuss healthy living, keeping fit and the long term benefits. Take part in a family physical activity that is appropriate and maintainable for your family. Discuss the importance of a healthy mental and physical health.	plasma, white blood cells, platelets, red blood cells, oxygen, heart disease, cancer, diabetes. Transpiration, translocation, osmosis, active transport. Virus, bacteria, fungi, protists. malaria, salmonella. influenza, covid. Tobacco mosaic virus. skin, enzymes, mucus, hair, lysozyme, hydrochloric acid, slin, sebum. Light, carbon dioxide, water, oxygen, glucose. heart rate, anaerobic, aerobic
Spring 1	Homeost asis and response	HomeostasisDiabetesHormones	Discuss growing up and the changes hormones have on our bodies.	water balance, temperature balance, blood glucose, oestrogen, progesterone,insulin, type 1, type 2, adrenaline.
Assessment:				

Spring 2	Reprodu ction.	 Plant Hormones Reproduction DNA- Mutations 	Watch Countryfile or Gardeners World and find out about gardening and farming techniques	auxin, hydrotropism, phototropism, geotropism, meiosis, mitosis, genetic mutation, genes, deoxyribonucleic acid, chromosomes
Assessment:		GCSE practic		
Summer 1	Inheritan ce, Variation and Evolution	 Variation Evolution Speciation Selective Breeding 	If appropriate discuss characteristics in your family and their family tree. Watch nature and farming documentaries to identify the whole range of diversity on planet Earth and in the UK.	variation, genetic, environmental, genes, DNA, chromosomes, adaptation, survival of the fittest, sexual reproduction, asexual reproduction, cloning, genotype, phenotype, familial, traits, species
Assessment:				species
Summer 2	Ecology	Adaptations Feeding the World	Watch nature programmes from different habitats and identify how animals adapt to their environment on iplayer.	species, organism, community, population, estimation, habitat, adaptation, interdependence, survival of the fittest, Lemark, Darwin, Mendel, Wallace