

ANNUAL LESSON PLAN FOR BIOLOGY, KEY STAGE 5, AS BIOLOGY (2021-2022)



Key Concepts



Term 1, September – December	Topic 1 Molecules, Transport and Health	Testing for biological molecules Carbohydrates and lipids Proteins and water	20
	Transport in mammals	Structure of transport tissues	25
	Transport in plants	Transport mechanisms	
		The circulatory system The Heart	25
		Movement of substances into and out of cells	
Term 2 – January – March		Replication and division of nuclei and cells Chromosome behaviour in mitosis	
	Topic 2 Membranes, Proteins, DNA and Gene Expression	Fluid mosaic membrane Transcription, translation	25
	Biological molecules	Protein, carbohydrate, lipid	25
	Enzymes	Mode of action of enzymes Factors that affect enzyme action	
	Topic 3 – Cell Structure, Reproduction and Development	The microscope and in cell studies Cells as the basic units of living organisms	24
Term 3, April – June	Infectious disease	Sexual and asexual reproduction	24
		Infectious diseases Antibiotics	
	Topic 4 – Plant Structure and Function, Biodiversity and Conservation	Tissues, organs and their functions, conservation policies and strategies	40
Term 3, April – June	Practical skills		40
	Revision -all topics		
	Revision -all topics		40
	Revision -all topics		24