

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



Key Concepts



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