

Swanmore Science

Biology Trilogy Revision List



The chapter headings given below refer to our recommended revision guides. These can be purchased through the Finance Office. More information can be found on our website:

<https://swanmore-school.co.uk/equipment/>

Topic	Topic	Spec point	Topic Area	Know it? ☺☹
PAPER 1				
4.1 Cell Biology	Cell Structure	1.1	Eukaryotic and prokaryotic cells	
		1.2	Animal and plant cells	
		1.3	Cell specialisation	
		1.4	Cell differentiation	
		1.5	Microscopy	
	Cell division	2.1	Chromosomes	
		2.2	Mitosis and the cell cycle	
		2.3	Stem cells	
	Transport in cells	3.1	Diffusion	
3.2		Osmosis		
3.3		Active transport		
4.2 Organisation		2	Principles of organisation	
	Animal tissues, organs and organ systems	2.1	The human digestive system	
		2.2	The heart and blood vessels	
		2.3	Blood	
		2.4	Coronary heart disease: a non-communicable disease	
		2.5	Health issues	
		2.6	The effect of lifestyle on some non-communicable diseases	
		2.7	Cancer	
	Plant tissues, organs and systems	3.1	Plant tissues	
		3.2	Plant organ system	
4.3 Infection and response	Communicable diseases	1.1	Communicable diseases	
		1.2	Viral diseases	
		1.3	Bacterial diseases	
		1.4	Fungal diseases	
		1.5	Protist diseases	

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		1.6	Human defence systems	
		1.7	Vaccination	
		1.8	Antibiotics and painkillers	
		1.9	Discovery and development of drugs	
4.4 Bioenergetics	Photosynthesis	1.1	Photosynthesis	
		1.2	Rate of photosynthesis	
		1.3	Uses of glucose from photosynthesis	
	Respiration	2.1	Aerobic and anaerobic respiration	
		2.2	Response to exercise	
		2.3	Metabolism	
REQUIRED PRACTICALS				
RP1			Use a light microscope to observe, draw and label a selection of plant and animal cells.	
RP2			Investigate the effect of a range of concentrations of salt or sugar solutions on the mass of plant tissue.	
RP3			Use qualitative reagents to test for a range of carbohydrates, lipids and proteins.	
RP4			Investigate the effect of pH on the rate of reaction of amylase enzyme.	
RP5			Investigate the effect of light intensity on the rate of photosynthesis using an aquatic organism such as pondweed.	