Unit	Section	Content
	4.1.2 Cell Division	-How DNA is arranged as chromosomes
Cell Biolo gy		-Series of stages in the cell cycles inc. mitosis
		-Definition and uses of stem cells
Organisation	4.2.2 Animal tissues, organs and	- Functions of tissues and organs in the digestive system
	organ systems	-Digestive enzymes
		-Functions of tissues and organs in the circulatory system
		-Pathway of blood through the heart
		-adaptations of components of the blood
		-risk factors of non-communicable diseases
		-Explain the cause of CHD
		-Evaluate the advantages and disadvantages of treating
		cardiovascular diseases by drugs, mechanical devices or transplant
	Required practical 3: test for	-Reagent and positive result for carbohydrates, proteins and lipids
	carbohydrates, lipids and proteins	
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	Required Practical 4 investigate the	-action of enzymes
	effect of pH on the rate of reaction	-describe and explain the effect of extreme pH on rate of enzymes
	of amylase enzyme.	-testing for starch
		-identify independent, dependent, control variables
		-How to measure the dependent variable
		-method
		-analysing results
Infection and response	4.3.1 Communicable Diseases	-definition and examples of pathogen
		-how viruses and bacteria make us ill
		 examples of diseases caused by each type of pathogen
		-human defence mechanisms
		-what happens in a vaccine
nfe re		-comparing antibody production after active and passive immunity
-		-role of antibiotics
		-stages in the development of drugs
Bioenergetics	4.4.1 Photosynthesis	-photosynthesis equation
		-factors affecting rate of photosynthesis
		-explain graphs of photosynthesis rate involving 2/3 factors and
		decide which is the limiting factor.
		-understand and use inverse proportion – the inverse square law and
		light intensity -explain the important of limiting factors in enhancing the conditions
		in greenhouses to gain the maximum rate of photosynthesis while still
		maintaining profit.
	Required Practical 5: effect of light	-independent, dependent, control variables
	intensity on rate of photosynthesis	-How to measure the dependent variable
		-method
		-analysing results
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