

St.Mary's College
Form 4 Course Outlir
Biology

Term	Topic
1	Cells,Tissues and Organs
	Cell Transport
	Nutrition
	Respiration

Excretion

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Subtopic	Textbook
Comparing structure of generalised animal and plant cells.	Chapter 5 Pg 40-48
Differentiate between plant and animal cells	
Structure of organelles and functions.	
Cell specialisation in multicellular organisms.	
Diffusion, osmosis and active transport in living systems.	
Heterotrophic, autotrophic and saprophytic nutrition	Chapter 6 Pg 52-58
Process of photosynthesis	
Structure and function of leaf in photosynthesis	
Limiting factors in photosynthesis	
Minerals and plant nutrition	
Food Tests	Chapter 7 Pg 61-79
Structure and function of alimentary canal	
Role and importance of enzymes.	
Effect of temperature and pH on enzymes.	
Assimilation of digestive end products	
Process of aerobic respiration	Chapter 8 Pg 83-88
Distinguish between aerobic and anaerobic respiration	
Mechanism of breathing and gaseous exchange.	Chapter 9 Pg 91-98
Characteristics of gaseous exchange surfaces.	
Distinguish between egestion and excretion	
Importance of excretion	

Excretion in plants and animals	Chapter 12 Pg 127-137
The kidney and its excretory and osmoregulatory functions.	