

AQA GCSE Biology Paper 1 Topic List

Chapter 1 – Cell Structure & Transport

Microscopes and Magnification
Animal and Plant Cells
Eukaryotic and Prokaryotic Cells
Specialisation in animal and plant cells
Diffusion
Osmosis
Osmosis in plants
Active Transport
Exchanging Materials

Chapter 2 – Cell Division

Cell Division
Growth & Differentiation
Stem Cells
Issues with Stem Cells

Chapter 3 – The Digestive System

Tissues and Organs
The human digestive system
The chemistry of food
Catalysts and Enzymes
Factors affecting Enzymes
How the Digestive System works
Making Digestion efficient

Chapter 4 – Organising Animals & Plants

The Blood & Blood Vessels
The Heart
Helping the Heart
Breathing and gas exchange
Tissues and Organs in plants
Transport systems in plants
Evaporation & Transpiration
Factors affecting Transpiration

Chapter 5 – Communicable Diseases

Health and Disease
Pathogens and Disease
Growing bacteria in the lab

Preventing bacterial growth
Preventing infections
Viral diseases
Bacterial diseases
Diseases caused by fungi and protists
Human defence responses
More about plant diseases
Plant defence responses

Chapter 6 – Preventing and Treating Disease

Vaccination
Antibiotics and Painkillers
Discovering drugs
Making monoclonal antibodies
Uses of monoclonal antibodies

Chapter 7 – Non-Communicable Diseases

Non-Communicable disease
Cancer
Smoking and the risk of disease
Diet, exercise, and disease
Alcohol and other carcinogens

Chapter 8 – Photosynthesis

Photosynthesis
The rate of photosynthesis
How plants use glucose
Making the most of photosynthesis

Chapter 9 - Respiration

Aerobic Respiration
The response to exercise
Anaerobic respiration
Metabolism and the liver

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Biology (Triple Science)
only*

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Topics List
Oxford University Press

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