

# **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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Oxford University Press**

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**Annelies Wilder-Smith**



**Biology Paper 1 2012:**

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