

GCSE Biology Revision Topics

Topic 1 – Cell Biology

- Animal and plant cells
- Cell Specialisation and differentiation
- Stem cells
- Eukaryotic and prokaryotic cells
- Microscopy
- Culturing microorganisms
- Chromosomes
- Mitosis and cell cycle
- Diffusion
- Osmosis
- Active Transport

Topic 2 - Organisation

- Organisation
- Human digestive system
- Properties of enzymes
- Human digestion enzymes
- Food tests
- Heart and blood vessels
- Coronary heart disease
- Blood
- Cancer
- Leaf structure
- Plant transport systems
- Active transport

Topic 3 – Infection and Response

- Communicable disease
- Viral bacterial and fungal disease in humans
- Protist diseases – malaria
- Human defence systems
- Vaccination
- Antibiotics
- Painkillers
- Discovery and development of drugs

Topic 4 – Bioenergetics

- Photosynthesis
- Rate of photosynthesis
- Limiting factors
- Uses of glucose
- Aerobic respiration
- Anaerobic respiration
- Response to exercise
- Metabolism

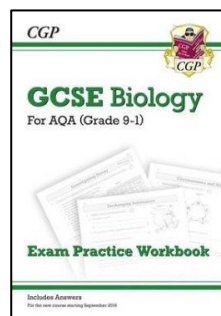
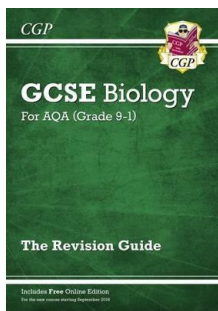
Topic 5 – Homeostasis and response

- Homeostasis
- Structure and function of nervous system
- Reflex actions
- Human endocrine system
- Control of blood glucose
- Diabetes
- Hormones in reproduction

**Topics 6 & 7 will not be examined in the mock examination*

Revision Guides

All students have been issued with the following revision guide and workbook to use:



Exam Papers

These can be found at the following location:

<https://www.aqa.org.uk/subjects/science/gcse/biology-8461/assessment-resources>

APPs and Websites for Revision

- <https://www.bbc.co.uk/education/subjects/z9ddmp3>
- <http://www.s-cool.co.uk/gcse/biology>
- Gojimo app available on iTunes