

AQA GCSE Biology (Higher) - Specification Checklist

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PPQs = Past paper questions

Paper 1H

4.1 Cell Biology

4.1.1 - Cell structure

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.1.1.1	Eukaryotes and prokaryotes				
4.1.1.2	Animal and plant cells				
4.1.1.3	Cell specialisation				
4.1.1.4	Cell differentiation				
4.1.1.5	Microscopy				
4.1.1.6	Culturing microorganisms				

4.1.2 - Cell division

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.1.2.1	Chromosomes				
4.1.2.2	Mitosis and the cell cycle				
4.1.2.3	Stem cells				

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4.1.3 - Transport in cells

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.1.3.1	Diffusion				
4.1.3.2	Osmosis				
4.1.3.3	Active transport				

4.2 Organisation

4.2.1 - Principles of organisation

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.2.1.1	Principles of organisation				

4.2.2 - Animal tissues, organs and organ systems

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.2.2.1	The human digestive system				
4.2.2.2	The heart and blood vessels				
4.2.2.3	Blood				
4.2.2.4	Coronary heart disease: a non-communicable disease				
4.2.2.5	Health issues				
4.2.2.6	The effect of lifestyle on some non-communicable diseases				
4.2.2.7	Cancer				

4.2.3 - Plant tissues, organs and systems

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.2.3.1	Plant tissues				
4.2.3.2	Plant organ system				

4.3 Infection and response

4.3.1 - Communicable diseases

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.3.1.1	Communicable (infectious) diseases				
4.3.1.2	Viral diseases				
4.3.1.3	Bacterial diseases				
4.3.1.4	Fungal diseases				
4.3.1.5	Protist diseases				
4.3.1.6	Human defence systems				
4.3.1.7	Vaccination				
4.3.1.8	Antibiotics and painkillers				
4.3.1.9	Discovery and development of drugs				

4.3.2 - Monoclonal antibodies

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.3.2.1	Producing monoclonal antibodies				
4.3.2.2	Uses of monoclonal antibodies				

4.3.3 - Plant disease

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.3.3.1	Detection and identification of plant diseases				
4.3.3.2	Plant defence responses				

4.4 Bioenergetics

4.4.1 - Photosynthesis

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.4.1.1	Photosynthetic reaction				
4.4.1.2	Rate of photosynthesis				
4.4.1.3	Uses of glucose from photosynthesis				

4.4.2 - Respiration

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.4.2.1	Aerobic and anaerobic respiration				
4.4.2.2	Response to exercise				
4.4.2.3	Metabolism				

Paper 2H

4.5 Homeostasis and response

4.5.1 - Homeostasis

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.5.1	Homeostasis				

4.5.2 - The human nervous system

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.5.2.1	Structure and function				
4.5.2.2	The brain				
4.5.2.3	The eye				
4.5.2.4	Control of body temperature				

4.5.3 - Hormonal control in humans

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.5.3.1	Human endocrine system				
4.5.3.2	Control of blood glucose concentration				
4.5.3.3	Maintaining water and nitrogen balance in the body				
4.5.3.4	Hormones in human reproduction				
4.5.3.5	Contraception				
4.5.3.6	The use of hormones to treat infertility				
4.5.3.7	Negative feedback				

4.5.4 - Plant hormones

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.5.4.1	Control and coordination				
4.5.4.2	Use of plant hormones				

4.6 Inheritance, variation and evolution

4.6.1 - Reproduction

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.6.1.1	Sexual and asexual reproduction				
4.6.1.2	Meiosis				
4.6.1.3	Advantages and disadvantages of sexual and asexual reproduction				
4.6.1.4	DNA and the genome				
4.6.1.5	DNA structure				
4.6.1.6	Genetic inheritance				
4.6.1.7	Inherited disorders				
4.6.1.8	Sex determination				

4.6.2 - Variation and evolution

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.6.2.1	Variation				
4.6.2.2	Evolution				
4.6.2.3	Selective breeding				
4.6.2.4	Genetic engineering				
4.6.2.5	Cloning				

4.6.3 - The development of understanding of genetics and evolution

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.6.3.1	Theory of evolution				
4.6.3.2	Speciation				
4.6.3.3	The understanding of genetics				
4.6.3.4	Evidence for evolution				
4.6.3.5	Fossils				
4.6.3.6	Extinction				
4.6.3.7	Resistant bacteria				

4.6.4 - Classification of living organisms

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.6.4.1	Classification of living organisms				

4.7 Ecology

4.7.1 - Adaptations, interdependence and competition

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.7.1.1	Communities				
4.7.1.2	Abiotic factors				
4.7.1.3	Biotic factors				
4.7.1.4	Adaptations				

4.7.2 - Organisation of an ecosystem

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.7.2.1	Levels of organisation				

4.7.2.2	How materials are cycled				
4.7.2.3	Decomposition				
4.7.2.4	Impact of environmental change				

4.7.3 - Biodiversity and the effect of human interaction on ecosystems

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.7.3.1	Biodiversity				
4.7.3.2	Waste management				
4.7.3.3	Land use				
4.7.3.4	Deforestation				
4.7.3.5	Global warming				
4.7.3.6	Maintaining biodiversity				

4.7.4 - Trophic levels in an ecosystem

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.7.4.1	Trophic levels				
4.7.4.2	Pyramids of biomass				
4.7.4.3	Transfer of biomass				

4.7.5 - Food production

Num.	Topic Name	Topic covered?	Flashcards made?	Flashcards learnt?	PPQs Done?
4.7.5.1	Factors affecting food security				
4.7.5.2	Farming techniques				
4.7.5.3	Sustainable fisheries				
4.7.5.4	Role of biotechnology				