

AQA GCSE Biology: Foundation tier

Advance Information of Assessed Content 2022

Link to specification:

[GCSE Biology Specification](#)

Link to advance information document:

[AQA Advanced information - GCSE Biology](#)

Triple Biology Paper 1

These specification points will be the **major focus** of this paper.

Exam date: 17th May

All other specification points from B1, other those on the [next slide](#) that are not explicitly omitted, **may still be assessed** in multiple choice questions/linked to a previous answer, so cannot be completely ignored in your revision

Spec point	Concepts	CGP Biology revision guide pages	Bitesize	YouTube
4.1.1 Cell Structure	<ul style="list-style-type: none"> - Difference between prokaryotic and eukaryotic cells - Comparison of plant cells and animal cells - Function of organelles - Cell differentiation and specialised plant cells and animal cells 	11, 14	https://www.bbc.co.uk/bitesize/guides/z84jtv4/revision/1	Prokaryotic and eukaryotic cells Animal cells Plant cells
Required practical 1: use of light microscope to observe cells	<ul style="list-style-type: none"> - How to prepare slides -How to use the microscope to improve field of view, clarify, change magnification - Microscopy calculations - Unit conversions (mm, micrometres etc) 	12-13	https://www.bbc.co.uk/bitesize/guides/z84jtv4/revision/1	Required practical - Use of microscopes Microscopy Orders of magnitude
4.1.3 Transport in cells	<ul style="list-style-type: none"> - Diffusion - Factors affecting the rate of diffusion - Osmosis - Active transport 	20-22	https://www.bbc.co.uk/bitesize/guides/zs63tv4/revision/4	Osmosis Diffusion Active transport
Required practical 3: Investigate the effect of a range of concentrations of salt solution on the mass of plant tissue	<ul style="list-style-type: none"> - Calculate rate of water uptake - Identify independent, dependent and control variables - Calculate percentage change in mass - Interpret graph to find salt/ sugar concentration in potato 	21	https://www.bbc.co.uk/bitesize/guides/zs63tv4/revision/5	Required practical link

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4.2.2 Animal tissues, organs and organ systems	<ul style="list-style-type: none"> - Functions of tissues and organs in the digestive system - Digestive enzymes - Functions of tissues and organs in the circulatory system - Pathway of blood through the heart - adaptations of components of the blood - risk factors of non-communicable diseases 	28, 30, 31, 33, 34, 35, 37, 38 - 40	Digestion Animal transport systems	https://www.youtube.com/watch?v=4ui4oSHHnzA https://www.youtube.com/watch?v=VLK2wANjQm0 https://www.youtube.com/watch?v=bpYaKM2hVFY
Required practical 4: Use qualitative reagents to test for a range of carbohydrates, lipids and proteins	<ul style="list-style-type: none"> - Reagents used to test for sugars, starch, proteins and lipids - Positive result for each food test - Conditions required to carry out food test 	32	Food tests	Food tests – video summary Food tests - detailed methods
4.2.3 Plant tissues, organs and systems	<ul style="list-style-type: none"> - cross section of a leaf - functions and adaptations of xylem and phloem - transpiration - translocation 	42 - 44	Plant organisation	Plant organisation Transpiration Plant cell specialisations

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Spec point	Concepts	CGP revision guide pages	Bitesize	YouTube
4.3.1 Communicable Diseases	<ul style="list-style-type: none"> -definition and examples of pathogen -how viruses and bacteria make us ill -examples of diseases caused by each type of pathogen -human defence mechanisms -what happens in a vaccine -comparing antibody production after active and passive immunity 	46 – 50	https://www.bbc.co.uk/bitesize/guides/zs4mk2p/revision/1	https://www.youtube.com/watch?v=rAJGnS_ktk4
4.4.1 Photosynthesis	<ul style="list-style-type: none"> - State the word and symbol equation - Explain how light intensity, CO₂ concentration, chlorophyll and temperature affect the rate of photosynthesis - Measure rate of photosynthesis, plot a graph including scale to show rate of photosynthesis 	57-58	https://www.bbc.co.uk/bitesize/guides/zs4mk2p/revision/1	https://youtu.be/X81OIkeuHJw https://youtu.be/J0KxRX3fyol
Required practical investigate the effect of light intensity on the rate of photosynthesis	<ul style="list-style-type: none"> - Required practical activity 6: investigate the effect of light intensity on the rate of photosynthesis using an aquatic organism such as pondweed. 	59	https://www.bbc.co.uk/bitesize/guides/zs4mk2p/revision/5	https://youtu.be/id0aO_OdFwA

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Spec point
4.1.1.4 Cell differentiation
4.2.1 Principles of organisation
4.2.2.3 Blood
4.2.2.7 Cancer
4.3.1.5 Protist diseases
4.4.1.3 Uses of glucose from photosynthesis
4.4.2.2 Response to exercise
4.4.2.3 Metabolism

Triple Biology Paper 2

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Exam date: 15th June

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Spec point	Concepts	CGP revision guide pages	Bitesize	YouTube
4.5.2 The human nervous system	<ul style="list-style-type: none"> - Function of the NS - Control of body temperature - Response to high/ low temperatures 	72	Controlling body temperature.	https://www.youtube.com/watch?v=WoMPARSQPZw
4.5.3 Hormonal control in humans	<ul style="list-style-type: none"> - The endocrine system - Function of hormones within the endocrine system - Control of blood glucose - Diabetes - Kidneys and the role of ADH - Adrenaline and thyroxine 	73 – 76, 80	https://www.bbc.co.uk/bitesize/guides/zttqfcw/revision/1	Endocrine system
4.5.4 Plant hormones	<ul style="list-style-type: none"> - Site of auxin production - Role of auxin in producing phototropism / gravitropism 	81	https://www.bbc.co.uk/bitesize/guides/zc6cqhv/revision/1	https://www.youtube.com/watch?v=Bf5WKEMB5o
Required practical 8 – Investigate the effect of light on the growth of newly germinated seedlings	<ul style="list-style-type: none"> - identify independent, dependent and control variables - Describe how variables can be controlled 	81	https://www.bbc.co.uk/bitesize/guides/zc6cqhv/revision/3	https://www.youtube.com/watch?v=fEo21LbnJJM

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Spec point	Concepts	CGP revision guide pages	Bitesize	YouTube
4.6.1 Reproduction	<ul style="list-style-type: none"> - Sexual and asexual reproduction - Gametes - Meiosis 	87-89	https://www.bbc.co.uk/bitesize/guides/z9pkmsg/revision/1	https://www.youtube.com/watch?v=Fh9b6a-3DLQ
4.6.3 The development of understanding of genetics and evolution	<ul style="list-style-type: none"> -Natural Selection, survival of the fittest -Selective breeding -Charles Darwin- Why his work was originally challenged -Lamarck – Why his work is not accepted -Mendel 	96,97,98,101 94	https://www.bbc.co.uk/bitesize/guides/zcqbdxs/revision/1 https://www.bbc.co.uk/bitesize/guides/zg8f4qt/revision/9	https://www.youtube.com/watch?v=VjIE5Qzl1S0 https://youtu.be/SOgVM904cPc
Required Practical 7: Measure the population size of a common species in a habitat. Use sampling techniques to investigate the effect of a factor on the distribution of this species	<ul style="list-style-type: none"> -Using transects and quadrats are used by ecologists to determine the distribution and abundance of species in an ecosystem. -Understand the terms mean, mode and median -Calculate arithmetic means 	110-111	https://www.bbc.co.uk/bitesize/guides/zqskv9q/revision/3	https://www.youtube.com/watch?v=2MW6nwf80XM https://www.youtube.com/watch?v=RhMOCxXcDrQ https://www.youtube.com/watch?v=yLHz2Ea10Mg&t=2s

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Spec point
• 4.5.2.2 The brain
• 4.5.2.3 The eye
• 4.5.2.3 The eye
• 4.6.1.3 Advantages and disadvantages of sexual and asexual reproduction
• 4.6.1.5 DNA structure
• 4.6.1.8 Sex determination
• 4.6.2 Variation and evolution
• 4.6.3.1 Theory of evolution
• 4.6.3.2 Speciation
• 4.6.3.3 The understanding of genetic
• 4.6.3.7 Resistant bacteria
• 4.7.1.4 Adaptations
• 4.7.2.2 How materials are cycled
• 4.7.2.3 Decomposition
• 4.7.3.1 Biodiversity

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Spec point
• 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
4.7.5 Food production