

AQA GCSE Combined Biology: Foundation

Advance Information of Assessed Content 2022

Link to specification:

<https://filestore.aqa.org.uk/resources/science/specifications/AQA-8464-SP-2016.PDF>

Link to advance information document: <https://filestore.aqa.org.uk/content/summer-2022/AQA-8464-AI-22.PDF>

Biology Paper 1 - F

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	Stella Link	Bitesize	YouTube
4.1.2 Cell Division	<ul style="list-style-type: none"> -How DNA is arranged as chromosomes -Series of stages in the cell cycles inc. mitosis -Definition and uses of stem cells 	Year 9 Biology.docx	https://www.bbc.co.uk/bitesize/guides/z2kmk2p/revision/2 https://www.bbc.co.uk/bitesize/guides/z2kmk2p/revision/3	https://www.youtube.com/watch?v=RHyZVmbiA78 https://www.youtube.com/watch?v=Kh27eyjxvYM&t=24s
Required practical 1: use of light microscope	<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 	Practical video	https://www.bbc.co.uk/bitesize/guides/zpqpqhv/revision/1	https://www.youtube.com/watch?v=jBVxo5T-ZQM&t=8s
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 	Year 9 Biology.docx	https://www.bbc.co.uk/bitesize/guides/z89mk2p/revision/1 https://www.bbc.co.uk/bitesize/guides/zsnscrd/revision/1	https://www.youtube.com/watch?v=4ui4oSHHnzA https://www.youtube.com/watch?v=VLK2wANjQm0 https://www.youtube.com/watch?v=bpYaKM2hVFY
Required practical 3: test for carbohydrates, lipids and proteins	-Reagent and positive result for carbohydrates, proteins and lipids	Practical video	https://www.bbc.co.uk/bitesize/guides/z89mk2p/revision/3	https://www.youtube.com/watch?v=SqWTJWOBww4

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Spec point	Concepts	Stella link	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 -role of antibiotics -stages in the development of drugs 	Year 10 Biology.docx	https://www.bbc.co.uk/bitesize/topics/z9kww6f	https://www.youtube.com/watch?v=dbd5iydu3EY https://www.youtube.com/watch?v=5X9MkILVhlw https://www.youtube.com/watch?v=HSrrPdJDqxM https://www.youtube.com/watch?v=uPeZBhJYInU https://www.youtube.com/watch?v=w3ykU52K-Hw
4.4.1 Photosynthesis	<ul style="list-style-type: none"> -photosynthesis equation -factors affecting rate of photosynthesis 	Year 10 Biology.docx	https://www.bbc.co.uk/bitesize/guides/zs4mk2p/revision/1	https://www.youtube.com/watch?v=rAJGnS_ktk4
Required Practical 5: effect of light intensity on rate of photosynthesis	<ul style="list-style-type: none"> -independent, dependent, control variables -How to measure the dependent variable -method -analysing results 	Practical video	https://www.bbc.co.uk/bitesize/guides/zs4mk2p/revision/5	https://www.youtube.com/watch?v=cBCKedXdFeE

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Exam date: 17th May

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Spec point	CGP Revision Guide Pages
4.1.3.2 Osmosis	18
4.1.3.3 Active Transport	19
4.2.2.4 Coronary Heart Diseases	33-34
4.4.1.3 Uses of Glucose from Photosynthesis	Bottom half of pg 50
4.4.2 Respiration	53-55

Biology Paper 2 - F

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

Exam date: 15th June

All other specification points from B2, 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	Stella Link	Bitesize	YouTube
4.5.3 Hormonal Control in Humans	<ul style="list-style-type: none"> -definition of 'hormone' function of the tissues and organs of the endocrine system -identifying position of glands, and the hormones secreted from them -hormones involved in control of blood glucose concentration -Type 1 and Type 2 diabetes 	Year 10 Biology.docx	<p>https://www.bbc.co.uk/bitesize/guides/zq4mk2p/revision/1</p> <p>(1 to 5)</p>	<p>https://www.youtube.com/watch?v=c6olhi88KZs</p> <p>https://www.youtube.com/watch?v=77oyUdNZ054</p>
4.6.1 Reproduction	<ul style="list-style-type: none"> -describe the structure of DNA -define 'genome' -structure of a chromosome -definition of 'gene' -definition of key inheritance terms e.g. heterozygous, recessive allele, phenotype -construct punnett squares -determine probability -inherited disorders -make informed judgements about the economic, social and ethical issues concerning embryo screening, 	Year 11 Biology.docx	<p>https://www.bbc.co.uk/bitesize/guides/zycmk2p/revision/3</p> <p>https://www.bbc.co.uk/bitesize/guides/zcdfmsg/revision/1</p>	<p>https://www.youtube.com/watch?v=vw1TQXBQ6wQ</p> <p>https://www.youtube.com/watch?v=zNEtVaNQ0s8</p> <p>https://www.youtube.com/watch?v=mvWy5IbUoHA</p> <p>https://www.youtube.com/watch?v=sYPwWHszLDo</p>

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Spec point	Concepts	Stella link	Bitesize	YouTube
4.7.1 Adaptations, interdependence and competition	<ul style="list-style-type: none"> -Describe the different levels of organisation in an ecosystem -Describe the importance of interdependence and competition in a community. -Identify biotic and abiotic factors -Suggest the factors for which organisms are competing in a given habitat 	Year 11 Biology.docx	https://www.bbc.co.uk/bitesize/guides/z86gpbk/revision/1 (1 to 7)	https://www.youtube.com/watch?v=XVD5izWXmKo https://www.youtube.com/watch?v=0mjafH5pVLA
4.7.2 Organisation of an ecosystem	<ul style="list-style-type: none"> -interpret food chains and webs -identify producers, consumers, predators and prey from food chains and webs -describe the carbon and water cycles 	Year 11 Biology.docx	https://www.bbc.co.uk/bitesize/guides/zqskv9q/revision/1	https://www.youtube.com/watch?v=dRFQ8rZCK6Q https://www.youtube.com/watch?v=urzpnjwazV0
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 	Practical video	https://www.bbc.co.uk/bitesize/guides/zqskv9q/revision/3	https://www.youtube.com/watch?v=2MW6nwf80XM https://www.youtube.com/watch?v=RhMOCxXcDrQ

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