

Combined Science Trilogy Biology F Paper 1

Biology Unit 1 – Cell Biology Foundation

Major focus topic area	BBC Bitesize Websites	Video links	Revision guide page numbers	Knowledge Organiser page numbers
<p>Cell division</p> <p>(Spec reference 4.1.2)</p> <ul style="list-style-type: none"> • Chromosomes • Mitosis and the cell cycle • Stem cells 	<p>Chromosomes and DNA - Cell division - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize (Pages 1-3)</p>	<p>https://youtu.be/RHyZVmbiA78</p>	15	6
<p><i>Required practical activity 1:</i> use a light microscope to observe, draw and label a selection of plant and animal cells.</p>	<p>Cell measurement - Cell structure - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize (Pages 1-4)</p>	<p>https://youtu.be/fp5H3SslskQ https://youtu.be/5IN2NrGBOYY</p>	16	8
		<p>https://youtu.be/PB97svr7Ye8 https://youtu.be/rJrR8h-DtA https://youtu.be/jBVxo5T-ZQM</p>	12-13	5 (just the microscopy part)

YOU WILL NOT BE ASSESSED ON

- **Osmosis (spec ref 4.1.3.2)**

- Active transport (spec ref 4.1.3.3)

Biology Unit 2 – Organisation Foundation

Major focus topic area	BBC Bitesize Websites	Video links	Revision guide page numbers	Knowledge Organiser page numbers
Animal tissues, organs and organ systems (Spec reference 4.2.2) <ul style="list-style-type: none"> • The human digestive system (including enzymes) 	Molecules of life - Animal organisation - digestion - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize (Pages 1-8)	https://youtu.be/gUncqL1ul8Q https://youtu.be/qq1foXnvJao https://youtu.be/6jz9WvfKDVc https://youtu.be/vMI46qGQMDw	24 25, 27	11
<ul style="list-style-type: none"> • The heart and blood vessels (including lungs) 	The circulatory system - Animal organisation - transport systems - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize (Pages 1-7, 10-12) NOT PAGE 8-9	https://youtu.be/B44n2SMLv-s https://youtu.be/zU90AkctJEs https://youtu.be/AISQEs694qY	29, 30, 31	12, 13
<ul style="list-style-type: none"> • Blood 		https://youtu.be/81w0BXg7QJA	32	13
<ul style="list-style-type: none"> • Health issues 	Different types of disease - Non-communicable diseases - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize (Pages 1-11)	https://youtu.be/thAyrNpD77A https://youtu.be/iy-47a68P60	35	15

<ul style="list-style-type: none"> • The effect of lifestyle on some non-communicable diseases • Cancer <p><i>Required practical 3:</i> Use of qualitative reagents to test for a range of carbohydrates, lipids and proteins</p> <p>YOU WILL NOT BE ASSESSED ON</p> <ul style="list-style-type: none"> • Coronary heart disease: a non-communicable disease (spec ref 4.2.2.4) 	<p>Molecules of life - Animal organisation - digestion - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize (Page 3)</p>	<p>https://youtu.be/B5VHRKBI4PY</p> <p>https://youtu.be/13H1urX3gxl</p> <p>https://youtu.be/SqWTJWOBww4</p>	<p>36</p> <p>37</p> <p>28</p>	<p>16</p> <p>16</p>
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Biology Unit 3 – Infection and Response Foundation

Major focus topic area	BBC Bitesize Websites	Video links	Revision guide page numbers	Knowledge Organiser page numbers
Communicable diseases (Spec reference 4.3.1) <ul style="list-style-type: none"> • Communicable diseases • Viral diseases • Bacterial diseases • Fungal diseases • Protists diseases • Human defence systems • Vaccination • Antibiotics and pain killers • Discovery and development of drugs 	<p>Pathogens - Communicable diseases - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize (Pages 1-10)</p> <p>Vaccinations - Treating, curing and preventing disease - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize (Pages 1-6)</p>	<p>https://youtu.be/dbd5iydu3EY</p> <p>https://youtu.be/m0o8mhu9Arg</p> <p>https://youtu.be/Z5c8lVXDiqc</p> <p>https://youtu.be/2Fh-2wpvhHQ</p> <p>https://youtu.be/63XExOKWrqg</p> <p>https://youtu.be/23fQscOSqVU</p> <p>https://youtu.be/r_5GM3_u0Wo</p> <p>https://youtu.be/w3ykU52K-Hw</p>	43 44 43 45 46 47 48 49	19 20 21

Biology Unit 4 –Bioenergetics Foundation

Major focus topic area	BBC Bitesize Websites	Video links	Revision guide page numbers	Knowledge Organiser page numbers
<p>Photosynthesis</p> <p>(Spec reference 4.4.1)</p> <ul style="list-style-type: none"> • Photosynthetic reaction • Rate of photosynthesis <p><i>Required practical 5:</i> investigate the effect of light intensity on the rate of photosynthesis using an aquatic organism such as pondweed</p> <p>YOU WILL NOT BE ASSESSED ON</p> <ul style="list-style-type: none"> • Uses of glucose from photosynthesis (spec ref 4.4.1.3) • Respiration (spec ref 4.4.2) 	<p>Photosynthesis - Photosynthesis - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize (Pages 1-3,5-6) (NOT THE SECTION OF USES OF GLUCOSE ON PAGE 1)</p> <p>Photosynthesis - Photosynthesis - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize (Pages 5-6)</p>	<p>https://youtu.be/X810IkeuHJw (You do not need to know the uses of glucose)</p> <p>https://youtu.be/J0KxRX3fyol</p> <p>https://youtu.be/cBCKedXdFeE</p>	<p>(You do not need to know the uses of glucose) 50</p> <p>51, 52</p> <p>52</p>	<p>22 (You do not need to know the uses of glucose)</p>