



Biology – Year 9 Useful Links



4.1 Cells

Cells Video Playlist BBC Bitesize	Cell biology - GCSE Biology (Single Science) - BBC Bitesize
Types of Cells - Animal and Plant Cells, Prokaryotic and Eukaryotic Cells	Cell measurement - Cell structure - AQA - GCSE Biology (Single Science) Revision - AQA - BBC Bitesize GCSE Biology - Cell Types and Cell Structure (2026/27 exams)
Microscopy and Magnification	GCSE Biology - What is Microscopy? (2026/27 exams) GCSE Biology - What Is The Difference Between Light And Electron Microscopes? (2026/27 exams)
Specialised Cells	GCSE Biology - Differentiation and Specialised Cells (2026/27 exams)
Chromosomes	Chromosomes and DNA - Cell division - AQA - GCSE Biology (Single Science) Revision - AQA - BBC Bitesize
Mitosis	GCSE Biology - Mitosis Chromosomes Cell Division Cytokinesis (2026/27 exams) What is mitosis? GCSE biology interactive revision - AQA - BBC Bitesize
Stem Cells	GCSE Biology - What are Stem Cells? Difference Between Embryonic and Adult Stem Cells
Cell transport – Diffusion, Osmosis, Active Transport	Diffusion - Transport in cells - AQA - GCSE Biology (Single Science) Revision - AQA - BBC Bitesize What is Diffusion? How Does it Work? What Factors Affect it? (2026/27 exams) GCSE Biology - Osmosis (2026/27 exams) GCSE Biology - Active Transport (2026/27 exams)
Sample Exam Questions - Cells	Multiple choice questions - Sample exam questions - cell biology - AQA - GCSE Biology (Single Science) Revision - AQA - BBC Bitesize
Cells Podcasts	GCSE Science podcasts - The Cell - BBC Bitesize
Physics and Maths Tutor – Cells – Detailed Notes, Flashcards, Mind Maps, Exam Questions	AQA GCSE Biology Topic 1: Cell Biology Revision - PMT
Bitesize Quizzes (select relevant topic, e.g., Cells)	Quizzes - GCSE Biology (Single Science) - BBC Bitesize
Free Science Lessons – Cells Playlist	AQA GCSE Biology Paper 1 Cell Biology - YouTube

4.2 Organisation of Plants and Animals

The Digestive System – including enzymes and food tests	GCSE Biology - Levels of Organisation - Cells, Tissues, Organs and Organ Systems (2026/27 exams) Molecules of life - Animal organisation - digestion - AQA - GCSE Biology (Single Science) Revision - AQA - BBC Bitesize GCSE Biology - Nutrition - Carbohydrates Lipids Proteins Vitamins Minerals (2026/27 exams) GCSE Biology - Food Tests Practicals (2026/27 exams) GCSE Biology - Digestive Enzymes (2026/27 exams) The Digestive System GCSE Biology - Enzymes - How Temperature and pH Affect Rate of Reaction (2026/27 exams)
Plant Organisation – specialised cells, tissues, organs, and transport	Plant organisation - Plant organisation - AQA - GCSE Biology (Single Science) Revision - AQA - BBC Bitesize GCSE Biology - Transpiration & Translocation (2026/27 exams)
Breathing and gas exchange	Levels of organisation - Animal organisation - gaseous exchange systems - AQA - GCSE Biology (Single Science) Revision - AQA - BBC Bitesize GCSE Biology - Specialised Exchange Surfaces (2026/27 exams) GCSE Biology - The Lungs & Gas Exchange (2026/27 exams) Ventilation Mechanism How Breathing Works Inspiration & Expiration (2026/27 exams)
The heart	The Circulatory System & The Heart
Blood vessels	The circulatory system - Animal organisation - transport systems - AQA - GCSE Biology (Single Science) Revision - AQA - BBC Bitesize GCSE Biology - Blood Vessels (2026/27 exams)
Blood	GCSE Biology - The Circulatory System The Blood (2026/27 exams)
Health and lifestyle	GCSE Biology - Health & Disease (2026/27 exams) GCSE Biology - Risk Factors for Non-Communicable Disease How Disease Affects Others in Society
Non-communicable disease – coronary heart disease and cancer	Different types of disease - Non-communicable diseases - AQA - GCSE Biology (Single Science) Revision - AQA - BBC Bitesize GCSE Biology - Risk Factors for Non-Communicable Disease How Disease Affects Others in Society GCSE Biology - Cancer Benign & Malignant Tumours (2026/27 exams) GCSE Biology - Cardiovascular Disease & Treatments (2026/27 exams)

Organisation of Plants and Animals Podcasts	GCSE Science podcasts - The organisation of plants and animals - BBC Bitesize
Sample Exam Questions – Organisation	Multiple choice questions - Sample exam questions - organisation - AQA - GCSE Biology (Single Science) Revision - AQA - BBC Bitesize
Physics and Maths Tutor – Organisation – Detailed Notes, Flashcards, Mind Maps, Exam Questions	AQA GCSE Biology Topic 2: Organisation Revision - PMT
Bitesize Quizzes (select relevant topic e.g. Organisation of Plants and Animals)	Quizzes - GCSE Biology (Single Science) - BBC Bitesize
Free Science Lessons – Organisation	GCSE Biology Revision "The Digestive System"

4.4 Bioenergetics

Photosynthesis	Photosynthesis - Photosynthesis - AQA - GCSE Biology (Single Science) Revision - AQA - BBC Bitesize GCSE Biology - Photosynthesis (2026/27 exams) GCSE Biology - Factors Affecting the Rate of Photosynthesis Limiting Factor Graphs (2026/27 exams)
Respiration – Aerobic and Anaerobic	Cellular respiration - Respiration - AQA - GCSE Biology (Single Science) Revision - AQA - BBC Bitesize Aerobic & Anaerobic Respiration GCSE Biology - Exercise & Oxygen Debt (2026/27 exams)
Sample Exam Questions - Bioenergetics	Multiple choice questions - Sample exam questions - bioenergetics - AQA - GCSE Biology (Single Science) Revision - AQA - BBC Bitesize
Physics and Maths Tutor – Bioenergetics – Detailed Notes, Flashcards, Mind Maps, Exam Questions	AQA GCSE Biology Topic 4: Bioenergetics Revision - PMT
Bitesize Quizzes (select relevant topic e.g. Bioenergetics)	Quizzes - GCSE Biology (Single Science) - BBC Bitesize
Free Science Lessons – Bioenergetics Playlist	AQA GCSE Biology Paper 1 Bioenergetics - YouTube

Year 9 Commonly Misspelt Words

Key Word	Definition
Anaerobic	Respiration that takes place in cells without oxygen
Amylase	The enzyme which breaks down starch into simple sugars
Benign tumour	Tumours that are growths of abnormal cells which are contained in one area, usually within a membrane
Biuret's reagent	The reagent used to test for proteins, it turns from blue to lilac if protein is present
Concentration	A measure of the mass or amount of solute dissolved in a given volume of solvent or solution
Coronary arteries	The arteries that supply oxygen to the heart
Differentiation	The process that cells become specialised to carry out a certain function
Enzyme	A biological catalyst, which are proteins, that speed up the rate of reaction
Eukaryotic	Cells that have genetic material enclosed in a nucleus
Hydrochloric acid	The acid found in the stomach to create the optimum pH for enzymes to work
Phloem	Vessel in plants that transports dissolved sugars from the leaves to the rest of the plant
Prokaryotic	Cells that are smaller, which have genetic material that is not enclosed in a nucleus
Protease	The enzyme that breaks down proteins into amino acids
Protein	A molecule that is made of amino acids
Malignant tumours	Malignant tumour cells are cancers, they invade neighbouring tissues and spread to different parts of the body
Mesophyll	The tissue in plants that carries out photosynthesis
Mitochondria	The site of aerobic respiration, where energy is released
Nucleus	The part of the cell that controls cell activities, it is where DNA is found
Temperature	How hot or cold something is
Xylem	Vessel in plants that transports water and mineral ions up from the roots to the stems and leaves