

Year 8 Science

Below are the topic areas covered over this academic year. Please, use the resources to help improve and embed the learning you have completed in school.

*The links provided lead you to a series of lessons covering each unit.

Autumn

Topic Area	Resources
Tissues and Organs	Curriculum - Curriculum GCSE Biology - Levels of Organisation - Cells, Tissues, Organs and Organ Systems (2026/27 exams) - YouTube The Digestive System - YouTube The Circulatory System & The Heart - YouTube GCSE Biology - Blood Vessels (2026/27 exams) - YouTube GCSE Biology - The Nervous System Reflex Arcs Explained (2026/27 exams) - YouTube KS3 Biology - Human Reproductive Systems - YouTube KS3 Biology - Skeletal System - Structure of Bones Functions of the Skeleton - YouTube KS3 Biology - Muscular System - How Muscles Cause Movement Antagonistic Muscles & How They Work - YouTube
Acids and Alkalis	Curriculum - Curriculum GCSE Chemistry - Acids & Bases - pH Features Neutralisation Reactions (2026/27 exams) - YouTube GCSE Chemistry - Strong Acids & Weak Acids pH & Concentration of Hydrogen Ions (2026/27 exams) - YouTube GCSE Chemistry - Neutralisation Reactions Reactions of Acids (2026/27 exams) - YouTube
Movement and Pressure	Curriculum - Curriculum GCSE Physics - Pressure - Equation & How it Works (2026/27 exams) - YouTube GCSE Physics - Speed, Velocity, Distance & Displacement Scalar & Vector Quantities (2026/27 exams) - YouTube GCSE Physics - Distance-Time Graphs - YouTube Averages and The Range - GCSE Maths - YouTube
Respiration and Photosynthesis	Curriculum - Curriculum GCSE Biology - Photosynthesis (2026/27 exams) - YouTube Aerobic & Anaerobic Respiration - YouTube Photosynthesis vs. Cellular Respiration Comparison - YouTube

Spring

Topic Area	Resources

<p>Changing substances</p>	<p>Curriculum - Curriculum GCSE Chemistry - Conservation of Mass (2026/27 exams) - YouTube Magnesium Oxide - YouTube GCSE Chemistry - Balancing Equations Writing Word & Symbol Equations (2026/27 exams) - YouTube GCSE Chemistry - Redox Reactions - Displacement Reactions Ionic Equations Half Equations - YouTube GCSE Chemistry Revision "Acids Reacting with Metals" - YouTube GCSE Chemistry Revision "Acids Reacting with Metals" - YouTube GCSE Chemistry - Testing for Gases - Hydrogen/Chlorine/Oxygen/CO2 (2026/27 exams) - YouTube</p>
<p>Magnetism</p>	<p>Curriculum - Curriculum GCSE Physics - What Are Magnets? How to Draw Magnetic Field Lines - YouTube GCSE Physics Revision "Magnetic Fields" - YouTube GCSE Physics - Electromagnetism - Wires Coils Solenoids Electromagnets (2026/27 exams) - YouTube Earth and Compasses Magnetism Physics FuseSchool - YouTube Earth's Magnetic Field Earth Itself Is a Huge Magnet Magnetosphere Arbor Scientific - YouTube</p>
<p>Life Diversity</p>	<p>Curriculum - Curriculum KS3 Biology - Variation - YouTube GCSE Biology - Variation and Evolution (2026/27 exams) - YouTube AQA GCSE Biology in 10 Minutes! Topic 6 - Inheritance, Variation and Evolution - YouTube GCSE Biology Revision "Evolution by Natural Selection" - YouTube GCSE Biology - Selective Breeding (2026/27 exams) - YouTube</p>
<p>Earth Systems</p>	<p>Curriculum - Curriculum Major Types of Rocks-Sedimentary-Igneous-Metamorphic - YouTube Igneous Rocks - YouTube Types of Rocks Igneous-Sedimentary-Metamorphic Rocks - YouTube The Rock Cycle - YouTube The Water Cycle The Dr. Binocs Show Learn Videos For Kids - YouTube GCSE Biology - Carbon Cycle & Water Cycle (2026/27 exams) - YouTube GCSE Chemistry - Air Pollution - How Pollutants are Made Why They're Harmful (2026/27 exams) - YouTube</p>

	GCSE Chemistry - Sustainable Development - Reuse & Recycling (2026/27 exams) - YouTube
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Summer

Topic Area	Resources
Electric Circuits - Resistance	Curriculum - Curriculum GCSE Physics - Voltage, Current & Resistance V = IR Equation IV Graphs (2026/27 exams) - YouTube Ohms Law Explained - The basics circuit theory - YouTube GCSE Physics Revision "Required Practical 3: Resistance" - YouTube Resistance of a Wire - GCSE Science Required Practical - YouTube GCSE Physics Revision "Resistors in Series and Parallel - YouTube
Nutrition	Curriculum - Curriculum GCSE Biology - Food Tests Practicals (2026/27 exams) - YouTube Food Tests - GCSE Science Required Practical - YouTube GCSE Biology - Nutrition - Carbohydrates Lipids Proteins Vitamins Minerals (2026/27 exams) - YouTube The Digestive System - YouTube GCSE Biology - Digestive Enzymes (2026/27 exams) - YouTube GCSE Biology - Enzymes - How Temperature and pH Affect Rate of Reaction (2026/27 exams) - YouTube Structure of a leaf - GCSE Biology (9-1) - YouTube Plant Nutrition 101: All Plant Nutrients and Deficiencies Explained - YouTube
Light	Curriculum - Curriculum GCSE Physics - Reflection - YouTube GCSE Physics - Refraction of waves - YouTube The Science of Color Perception - YouTube GCSE Physics - Visible Light & Colour - Colour Spectrum Colour Filters (2026/27 exams) - YouTube