

Year 7 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.

Autumn Term

Topic Area	Resources
Cells	What are plant and animal cells? - BBC Bitesize Specialised animal cells - Living organisms - KS3 Biology - BBC Bitesize Specialised plant cells - Living organisms - KS3 Biology - BBC Bitesize GCSE Biology - Cell Types and Cell Structure (2026/27 exams) - YouTube GCSE Biology - Differentiation and Specialised Cells (2026/27 exams) - YouTube
Particles	What is the arrangement of particles in a solid, liquid and gas? - BBC Bitesize What are changes of state? - BBC Bitesize Gas pressure - BBC Bitesize GCSE Physics - Particle Theory & States of Matter Solids, Liquids & Gases (2026/27 exams) - YouTube
Forces	Introduction to forces - Forces and movement - KS3 Physics - BBC Bitesize Pressure guide for KS3 physics students - BBC Bitesize Force diagrams and resultant forces - Forces and movement - KS3 Physics - BBC Bitesize GCSE Physics - Contact & Non-contact Forces (2026/27 exams) - YouTube FORCES & MOTION - GCSE Physics - YouTube
Reproduction	Human reproduction - Reproduction - KS3 Biology - BBC Bitesize Changes that occur during the menstrual cycle - Reproduction - KS3 Biology - BBC Bitesize Changes that occur during the menstrual cycle - Reproduction - KS3 Biology - BBC Bitesize What is pollination? Reproduction - KS3 Biology - BBC Bitesize KS3 Biology - Human Reproductive Systems - YouTube GCSE Biology - The Menstrual Cycle & Puberty (2026/27 exams) - YouTube GCSE Biology - Sexual & Asexual Reproduction Gametes (2026/27 exams) - YouTube Science Raps: GCSE Biology - Reproduction - YouTube GCSE & KS3 Biology - Plant Reproduction Anatomy & Pollination - YouTube

Spring Term

Topic Area	Resources
Atoms, Elements, Compounds	Elements, compounds and mixtures - BBC Bitesize Atoms and molecules - BBC Bitesize Symbols and formulae - BBC Bitesize Atoms & Ions Protons, Neutrons, Electrons - YouTube GCSE Chemistry - Compounds, Molecules & Mixtures (2026/27 exams) - YouTube
Space	Features of our Solar System guide for KS3 physics students - BBC Bitesize Days, months, years and seasons guide for KS3 physics students - BBC Bitesize Sun as a star KS3 Physics guide for students - BBC Bitesize space gcse - YouTube GCSE Physics Revision "The Solar System" (Triple) - YouTube
Interdependence	Food chains and webs - Ecosystems and habitats - KS3 Biology - BBC Bitesize Changes to food webs - Ecosystems and habitats - KS3 Biology - BBC Bitesize GCSE Biology - Competition & Interdependence (2026/27 exams) - YouTube GCSE Biology Revision "Competition and Interdependence" - YouTube

Summer Term

Topic Area	Resources
Mixtures	Elements, compounds and mixtures - BBC Bitesize Evaporation - BBC Bitesize Distillation - BBC Bitesize What are pure substances? - BBC Bitesize GCSE Chemistry - Separation Techniques - Filtration Evaporation Crystallisation - YouTube GCSE Chemistry - Compounds, Molecules & Mixtures (2026/27 exams) - YouTube
Energy transfers	Energy stores - Energy - KS3 Physics - BBC Bitesize Energy calculations - Energy - KS3 Physics - BBC Bitesize GCSE Physics - Energy Stores, Transferring Energy & Work Done - YouTube GCSE Physics - Kinetic Energy How to Calculate it (2026/27 exams) - YouTube

Electrical Circuits	What is electricity guide for KS3 physics - BBC Bitesize Introduction to circuits - Electricity - KS3 Physics - BBC Bitesize Series circuits - Electricity - KS3 Physics - BBC Bitesize Parallel circuits - KS3 Physics - BBC Bitesize GCSE Physics - Circuits: Introduction - Potential Difference Current Resistance (2026/27 exams) - YouTube GCSE Physics - Series Circuits (2026/27 exams) - YouTube GCSE Physics - Voltage, Current & Resistance $V = IR$ Equation IV Graphs (2026/27 exams) - YouTube GCSE Physics - Parallel Circuits (2026/27 exams) - YouTube GCSE Physics - Plugs & Wires - Earth Wire Neutral Wire Live Wire (2026/27 exams) - YouTube
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