

## Year 9 Science

### Autumn

Topics	Resources
Growth and Differentiation	<p><a href="#">GCSE Biology Revision "Eukaryotes and Prokaryotes" - YouTube</a></p> <p><a href="#">Microbiology - GCSE Science Required Practical (Triple) - YouTube</a></p> <p><a href="#">GCSE Biology Revision "Required Practical 2: Culturing Microorganisms" (Triple) - YouTube</a></p> <p><a href="#">Binary Fission - How Do Bacteria Divide? (2026/27 exams) - YouTube</a></p> <p><a href="#">What is Diffusion? How Does it Work? What Factors Affect it? (2026/27 exams) - YouTube</a></p> <p><a href="#">GCSE Biology - Osmosis (2026/27 exams) - YouTube</a></p> <p><a href="#">GCSE Biology - Active Transport (2026/27 exams) - YouTube</a></p> <p><a href="#">GCSE Biology - Mitosis   Chromosomes   Cell Division   Cytokinesis (2026/27 exams) - YouTube</a></p> <p><a href="#">GCSE Biology - What are Stem Cells? Difference Between Embryonic and Adult Stem Cells - YouTube</a></p> <p><a href="#">GCSE Biology - Cancer   Benign &amp; Malignant Tumours (2026/27 exams) - YouTube</a></p>
The Periodic Table	<p><a href="#">GCSE Chemistry - Development of the Periodic Table (2026/27 exams) - YouTube</a></p> <p><a href="#">Periodic table - KS3 Chemistry - BBC Bitesize</a></p> <p><a href="#">GCSE Chemistry - Electronic Structure (2026/27 exams) - YouTube</a></p> <p><a href="#">GCSE Chemistry - Elements, Isotopes &amp; Relative Atomic Mass (2026/27 exams) - YouTube</a></p> <p><a href="#">GCSE Chemistry - Group 1 Elements - Alkali Metals   Properties   Reactivity (2026/27 exams) - YouTube</a></p> <p><a href="#">GCSE Chemistry - Group 7 &amp; Group 0 Elements - Halogens &amp; Noble Gases   Properties   Trends - YouTube</a></p> <p><a href="#">GCSE Chemistry Revision "Group 0" - YouTube</a></p> <p><a href="#">GCSE Chemistry Revision "Transition Elements" (Triple) - YouTube</a></p>
Acceleration	<p><a href="#">GCSE physics questions - Forces, acceleration and Newton's Laws GCSE physics revision - BBC Bitesize</a></p> <p><a href="#">What is the relationship between force and acceleration? - Forces: Video playlist - BBC Bitesize</a></p> <p><a href="#">GCSE Physics - Acceleration - Rate of Change in Velocity   Equations (2026/27 exams) - YouTube</a></p> <p><a href="#">GCSE Physics - Scalar &amp; Vector Quantities - What They Are   Examples   How to Represent Vectors - YouTube</a></p> <p><a href="#">GCSE Physics - Velocity-Time Graphs - How to Find Acceleration &amp; Distance Travelled (2026/27 exams) - YouTube</a></p>

Human Interaction	<a href="#">GCSE biology questions - biodiversity and the effect of human interaction on ecosystems</a> <a href="#">GCSE biology revision - BBC Bitesize</a> <a href="#">GCSE Biology - Maintaining Biodiversity   Reducing Environment Impact (2026/27 exams) - YouTube</a> <a href="#">GCSE Biology - Global Warming   Greenhouse Effect Explained (2026/27 exams) - YouTube</a> <a href="#">GCSE Biology Revision "Modern Farming Methods" (Triple) - YouTube</a>
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### Spring

Topics	Resources
Introduction to Quantitative Chemistry	<a href="#">GCSE Chemistry - Relative Formula Mass   Mr &amp; Percentage Mass Calculations (2026/27 exams) - YouTube</a> <a href="#">GCSE Chemistry - Conservation of Mass (2026/27 exams) - YouTube</a> <a href="#">GCSE Chemistry Revision "Calculating Percentage by Mass" - YouTube</a> <a href="#">GCSE Chemistry - Balancing Equations   Writing Word &amp; Symbol Equations (2026/27 exams) - YouTube</a> <a href="#">GCSE Working Scientifically "Uncertainty" - YouTube</a> <a href="#">GCSE Chemistry - Moles, Concentration &amp; Volume Calculations - YouTube</a> <a href="#">GCSE Chemistry Revision "Required Practical 1: Making Soluble Salts" - YouTube</a>
Heating	<a href="#">GCSE Physics Revision "Internal Energy" - YouTube</a> <a href="#">GCSE Physics - Specific Heat Capacity   Internal Energy &amp; Temperature (2026/27 exams) - YouTube</a> <a href="#">GCSE Physics - Conduction, Convection &amp; Radiation   How Heat Energy is Transferred (2026/27 exams) - YouTube</a> <a href="#">GCSE Physics - Specific Latent Heat - Vaporisation &amp; Fusion   Equation (2026/27 exams) - YouTube</a>
Genetics	<a href="#">GCSE Biology - Mitosis   Chromosomes   Cell Division   Cytokinesis (2026/27 exams) - YouTube</a> <a href="#">GCSE Biology - Meiosis (2026/27 exams) - YouTube</a> <a href="#">GCSE Biology - Sexual &amp; Asexual Reproduction   Gametes (2026/27 exams) - YouTube</a> <a href="#">GCSE Biology - Gregor Mendel and the History of Genetics (2026/27 exams) - YouTube#</a> <a href="#">GCSE Biology - DNA Part 1   Chromosomes &amp; Genome (2026/27 exams) - YouTube</a> <a href="#">GCSE Biology - DNA Part 2   Alleles   Phenotype vs Genotype (2026/27 exams) - YouTube</a> <a href="#">Punnett Square Basics   Mendelian Genetic Crosses - YouTube</a> <a href="#">Genotype, Phenotype and Punnet Squares Made EASY! - YouTube</a>

	<a href="#">GCSE Biology - Inherited Disorders   Polydactyly   Cystic Fibrosis (2026/27 exams) - YouTube</a> <a href="#">Sex Determination   Genetics   Biology   FuseSchool - YouTube</a>
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## Summer

Topics	Resources
Using Resources	<a href="#">GCSE Chemistry Revision "The Reactivity Series" - YouTube</a> <a href="#">GCSE Chemistry - The Reactivity Series - Metal Reactions   Displacement Reactions (2026/27 exams) - YouTube</a> <a href="#">GCSE Chemistry - Waste Water Treatment - Sources of Waste Water   How to Treat it (2026/27 exams) - YouTube</a> <a href="#">GCSE Chemistry - Lifecycle Assessments (LCAs) - Stages   Examples   Limitations (2026/27 exams) - YouTube</a>
Sound and Waves	<a href="#">GCSE Physics - Longitudinal &amp; Transverse Waves - Labelling &amp; Calculating Wave Speed (2026/27 exams) - YouTube</a> <a href="#">GCSE Physics Revision "The Wave Equation" - YouTube</a> <a href="#">GCSE Physics - Reflection - YouTube</a> <a href="#">GCSE Physics - Refraction of waves - YouTube</a>
Home Electricity	<a href="#">GCSE Physics Revision "Mains Electricity" - YouTube</a> <a href="#">AQA GCSE Physics in 10 Minutes!   Topic 2 - Electricity - YouTube</a> <a href="#">GCSE Physics - Circuits: Introduction - Potential Difference   Current   Resistance (2026/27 exams) - YouTube</a> <a href="#">GCSE Physics - Voltage, Current &amp; Resistance   <math>V = IR</math> Equation   IV Graphs (2026/27 exams) - YouTube</a> <a href="#">GCSE Physics - Static Electricity   Build-up of Charge on Insulating Materials (2026/27 exams) - YouTube</a> <a href="#">GCSE Physics - Plugs &amp; Wires - Earth Wire   Neutral Wire   Live Wire (2026/27 exams) - YouTube</a> <a href="#">GCSE Physics - Efficiency   Energy &amp; Power (2026/27 exams) - YouTube</a> <a href="#">Conductors and insulators - KS3 Physics - BBC Bitesize</a> <a href="#">Introduction to circuits - Electricity - KS3 Physics - BBC Bitesize</a> <a href="#">GCSE Physics - National Grid - How we Generate &amp; Transmit Electricity   Transformers (2026/27 exams) - YouTube</a>