

### Year 9 Science Curriculum Map 2023-2024

Year 9	Autumn 1 (7 weeks)	Autumn 2 (7 weeks)	Spring 1 (5 weeks)	Spring 2 (6 weeks)	Summer 1 (6 weeks)	Summer 2 (7 weeks)
Transition year plan	<i>Preparation for GCSE Curriculum (KS3)</i>		<i>Preparation for GCSE Curriculum (KS3)</i>		<b>Year 9 Exam</b>	Start of GCSE
Assessment	1.End of topic tests on <b>Energy/Electricity</b> 2.Assessed HW	1.End of topic tests on <b>Organisms/Ecosystem</b> 2.Assessed HW	1.End of topic tests on <b>Atoms/Matter</b> 2.Assessed HW	1.End of topic tests on <b>Waves/ Chemical reactions</b> 2.Assessed HW		1.End of topic tests on <b>Topic 1: Cells</b> 2. Assessed HW
Skills and AOs	<b>AO1, AO2 and AO3</b> Scientific Attitudes Experimental skills and investigations Analysis and evaluation Measurement	<b>AO1, AO2 and AO3</b> Scientific Attitudes Experimental skills and investigations Analysis and evaluation Measurement	<b>AO1, AO2 and AO3</b> Scientific Attitudes Experimental skills and investigations Analysis and evaluation Measurement	<b>AO1, AO2 and AO3</b> Scientific Attitudes Experimental skills and investigations Analysis and evaluation Measurement		1.End of topic tests on <b>Topic 2: Organisation</b> 2. Assessed HW
Topic	<b>Physics</b> <b>Conservation and dissipation of energy:</b> Changes in energy stores Energy and work Gravitational potential energy Kinetic energy Energy Efficiency  <b>Biology</b> <b>Cell Biology &amp; Diffusion:</b> Plant & Animal Cells Specialised Cells	<b>Chemistry</b> <b>Atomic structure &amp; separation Techniques:</b> Separating mixtures Ions, atoms & isotopes History of the atom Required Practicals • Paper chromatography • Simple distillation • Crystallisation  <b>Physics</b> <b>Energy Transfer by Heating:</b> Energy transfer by conduction	<b>Chemistry</b> <b>The Periodic Table:</b> Development of the periodic table Group 1 – the alkali metals Group 7 – the halogens Group 0 – Noble gases  <b>Biology</b> <b>Human Organisation – Digestion, Enzymes &amp; Food Tests:</b>	<b>Physics</b> <b>Molecules and matter:</b> Density Internal energy Specific latent heat Gas pressure & temperature Required Practical • Density of regular & irregular objects  <b>Biology</b> <b>Human Organisation – circulatory system, respiratory system &amp;</b>	<b>Year 9 Exam</b>	<b>Physics:</b> <b>Radioactivity</b> Atoms and radiation Alpha, beta & gamma radiation Activity & half-life  <b>Biology</b> <b>Communicable Diseases</b> Pathogens & diseases
						<b>Chemistry</b> <b>Structure and bonding:</b> States of matter Ionic bonding Covalent bonding Metallic bonding Structure of molecules  <b>Biology</b> <b>Preventing and treating disease</b> Vaccination

