

## GCSE Science @ LHS

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At Key Stage Four, most students will study Combined Sciences GCSE which combines Biology, Chemistry and Physics and is worth two GCSEs. Students who have a strong aptitude for science can study the three Science subjects separately leading to three GCSEs.

<b>Biology</b>	Key Concepts in Biology	Cells and Control	Genetics	Natural Selection and Genetic Modification	Health, Disease and the Development of Medicines	Plant Structure and their Functions	Animal Coordination, Control and Homeostasis	Exchange and Transport in Animals	Ecosystems and Material Cycles	
<b>Chemistry</b>	States of Matter, Methods of Separating and Purifying Substances	Atomic Structure	The Periodic Table	Ionic Bonding, Covalent Bonding, Types of Substances	Acids and Alkalis	Calculations Involving Masses	Electrolytic Processes, Obtaining and Using Metals, Reversible Reactions and Equilibria	Groups in the Periodic Table, Rates of Reaction, Heat Energy Changes in Chemical Reactions	Fuels, Earth and Atmospheric Science	
<b>Physics</b>	Motion	Forces and Motion	Conservation of Energy	Waves	Light and the Electromagnetic Spectrum	Radioactivity	Energy – Forces Doing Work, Forces and their Effects	Electricity and Circuits	Magnetism and the Motor Effect, Electromagnetic Induction	Particle Model, Forces and Matter