



## Science Curriculum Map – Year 8

Science	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Exploring Science	<b>The Periodic Table</b> Elements, atoms and compounds. Metals and Non-Metals.	<b>Earth and Space</b> Planets, Satellites, Stars and the Galaxy. Gravity, Space Exploration and the phases of the Moon. Seasons.	<b>Metals and their uses.</b> Identifying the properties and uses of certain metals. Analysis of how these metals react with oxygen, acid and water.	<b>Energy Transfers</b> Conduction, Convection and Radiation.	<b>Plants and their reproduction</b> Structure of a flowering plant. Pollination. Seed production and dispersal. Germination.	Acids and Alkalis Common bench acids and bases. Household acids and alkalis. Reaction with various indicators. Neutralisation. Making a vegetable indicator.
	<b>Light</b> Properties of light. Understanding refraction and reflection.  <b>Laboratory Skills</b> Using the Bunsen Burner safely Safe handling of equipment/apparatus.	<b>Unicellular Organisms</b> Identifying the form and function of the major groups of Unicellular Organisms.	<b>Fluids</b> Uses and application of different types of fluid. Forces, Friction and Density.	<b>Thermal Conduction and Insulation.</b> Sankey diagrams. Electricity Circuit diagrams and components. Parallel and Series circuits.	<b>Combustion</b> Fire Triangle and fire safety. Combustible materials. Oxidation Equations.	<b>Respiration</b> Structure of the Lungs. Gas exchange. Diffusion. Respiration in the cells. Equation for respiration.