

Subject: Science
Year 7 Overview



Key content – knowledge and skills	National Curriculum focus
<p>Cells & the skeletal system</p> <p>Human reproduction</p> <p>Particles, mixtures and solutions</p> <p>Forces, speed and pressure</p> <p>Diet and health</p> <p>Atoms, elements and compounds</p> <p>Energy and energy transfers</p>	<p>Biology – cells, muscles, skeletal system</p> <p>Biology – human reproduction</p> <p>Chemistry – the particulate nature of matter, pure and impure substances. Physics – matter</p> <p>Physics – motion and forces</p> <p>Biology – nutrition and digestion</p> <p>Chemistry – atoms, elements and compounds; the periodic table</p> <p>Physics – energy changes and transfers, changes in a system</p>
Key assessment points	
<ul style="list-style-type: none"> • Understand cells incl. specialised cells, organisation in the body, antagonistic muscle pairs & skeletal system • Understand male and female reproductive organs, puberty, menstrual cycle and foetal development • Know the difference between pure/impure substances, mixtures and compounds and describe & explain separation techniques • Describe how forces affect motion of objects, pressure, balanced and unbalanced forces • Explain what is needed in the diet to be healthy, how digestion works • Describe atoms/elements/compounds, write word equations for different chemical reactions • Analyse energy needs of the home and different people from foods, describe energy transfers. 	
Christian ethos	
<p>Tolerance, acceptance, kindness and forgiveness expected in all lessons. No prejudice acceptable.</p>	
British values	
<p>Mutual respect taught in how we treat each other in class, respecting lab equipment and being careful, and being tolerant of other faiths and beliefs when learning about diet, evolution, etc.</p> <p>Individual liberty – choices given relating to learning</p> <p>Democracy – freedom of information to use science to understand the world around us</p>	