

Year 8 Curriculum Map: Science

	Unit 1 & 2	Unit 3 & 4	Unit 5 & 6
Unit Title & Assessment Task	<p>Ecosystems A Waves A Matter B Organisms B</p> <p>Assessment will cover all of the topics studied and will include a variety of question types.</p>	<p>Organisms B Forces B Reactions B</p> <p>Assessment will cover all of the topics studied and will include a variety of question types.</p>	<p>Reactions B Ecosystems B Electromagnets B Earth B</p> <p>Assessment will cover all of the topics studied and will include a variety of question types.</p>
Key Knowledge/ Skills	<p>Know how plant reproduction occurs and investigate the environment.</p> <p>Know the different types of waves and how the eye and ear work using waves.</p> <p>Know the difference between atoms, elements and compounds. Know the groups of the periodic table and how they are different.</p> <p>Know how the respiratory and digestive systems work and how drugs and poor diet can affect the body.</p>	<p>Know how the respiratory and digestive systems work and how drugs and poor diet can affect the body.</p> <p>Know what affect forces can have such as squashing/stretching/turning.</p> <p>Know what pressure is and what can affect it.</p> <p>Know what happens to atoms in chemical reactions and through practical enquiry know what conservation of mass is.</p>	<p>Know the difference between exothermic and endothermic reactions giving examples and calculating bond energies.</p> <p>Know the difference between aerobic and anaerobic respiration. Know what photosynthesis is and how plant minerals can affect it.</p> <p>Know what electromagnets are and through practical enquiry build one and investigate them.</p> <p>Know the difference between global warming and climate change and how the carbon cycle impacts these.</p>
Rationale:	<p>These schemes of learning build upon core knowledge learnt in Yr7. They develop student's ability to understand and apply knowledge in more depth. Pupils will also begin to develop essential practical skills.</p>	<p>These schemes of learning build upon core knowledge learnt in Yr7. They develop student's ability to understand and apply knowledge in more depth. Pupils will also begin to develop essential practical skills.</p>	<p>These schemes of learning build upon core knowledge learnt in Yr7. They develop student's ability to understand and apply knowledge in more depth. Pupils will also begin to develop essential practical skills.</p>