



Key Learning Constructs to be developed over the academic year. – Core Knowledge	Scheme of Learning Autumn Term	Scheme of Learning Spring Term	Scheme of Learning Summer Term
<p>*living organisms may form populations of single species, communities of many species and ecosystems, interacting with each other, with the environment and with humans in many different ways</p> <p>*living organisms are interdependent and show adaptations to their environment</p> <p>*the chemicals in ecosystems are continually cycling through the natural world</p> <p>*the characteristics of a living organism are influenced by its genome and its interaction with the environment</p> <p>*evolution occurs by a process of natural selection and accounts both for biodiversity and how organisms are all related to varying degrees.</p>	<p>Part 1 Inheritance, Variation and Evolution – Reproduction The Structure of DNA Inheritance</p> <p>Part 2 Variation/Evolution Classification</p>	<p>Part 3 Ecology</p> <p>Part 4 Revision</p>	<p>Part 5 Revision</p>
<p>Hinterland Knowledge</p>	<p>Real examples of the APPLICATION of the content studied (eg the work of Gregor Mendel and Watson and Crick)</p>	<p>Real examples of the APPLICATION of the content studied (eg the work of Lamarck and Darwin)</p>	
<p>Assessment: -Formative Techniques</p> <p>-Summative Pieces</p>	<p>Use of whiteboards, hinge questions, recall questions.</p>		
	<p>End of Topic Tests</p>	<p>End of Topic Tests</p>	<p>End of Topic Tests and End of Year Assessment</p>
<p>Key Vocabulary</p>	<p>Key scientific terminology appropriate to each topic studied</p>	<p>Key scientific terminology appropriate to each topic studied</p>	<p>Key scientific terminology appropriate to each topic studied</p>
<p>Key Skills</p>			

	Working Scientifically, relevant mathematical techniques (percentages, mean, mode, median etc) Graph plotting skills. Understanding variables and anomalies and their causes and effects	Working Scientifically, relevant mathematical techniques (percentages, mean, mode, median etc) Graph plotting skills. Understanding variables and anomalies and their causes and effects	Working Scientifically, relevant mathematical techniques (percentages, mean, mode, median etc) Graph plotting skills. Understanding variables and anomalies and their causes and effects
Opportunities Outside the taught Curriculum.	Careers, STEAM enrichment activities, educational visits	Careers, STEAM enrichment activities, educational visits	Careers, STEAM enrichment activities, educational visits