







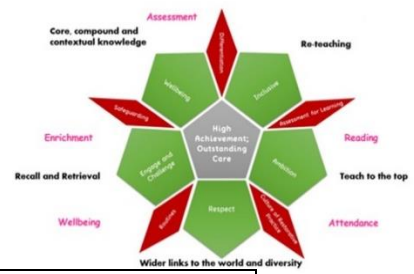


Curriculum Overview for Biology

Year 11

<p>Half Term 3: Ecology</p> <p>Substantive Knowledge: Levels of organisations of ecosystems Interdependence/competition in community. The biotic and abiotic factors which affect community Structural, behavioural and functional adaptations Extremophiles Cycled materials: carbon and water Competition and interdependence. Feeding relationships within different ecosystems. Sampling techniques. Cycling of materials such as carbon and water Triple: decay and factors which impact the rate of decay</p> <p>Disciplinary Knowledge: Sampling techniques in the field Calculating different means Analysing data (graph and tables) Use of sampling techniques to investigate the effect of a factor on the distribution of species.</p>		<p>Skim and Scan of source information Decoding terms Etymology of key terms</p>
		<p>Ecosystems, Carbon, Evaporated, precipitated, Animals, Plants, Respiration, Abiotic, Biotic, Environment, Sustainable,</p>
		<p>Recall questions to start every lesson Recall tests Review sheets End of unit review sheets</p>
		<p>Revision Card preparation Recall test revision Review sheet revision Repetition of use of revision cards for end of unit review sheet</p>
<p>Half Term 4: Ecology</p> <p>Substantive Knowledge: Efficiency of food production Sustainable fisheries (application of different fishing techniques promotes fish stock recovery). Biotechnology (biotechnical and agricultural solutions (genetic modification) meet population demand. Modern food production</p> <p>Disciplinary Knowledge: Sampling techniques in the field Calculating different means Analysing data (graph and tables) Triple: Required practical 10 - Effect of temp on rate of decay of fresh milk using pH. Evaluate impact of environment change (temp, water atmosphere) on distribution of species in ecosystem.</p> <p><i>Pupils will also deepen their understanding of organisms through looking at cell structure and functions, cell specialisation and cell transport</i></p> <p>Half Term 4: Revision</p>		<p>Skim and Scan of source information Decoding terms Etymology of key terms</p>
		<p>Ecosystems, Carbon, Evaporated, precipitated, Animals, Plants, Respiration, Abiotic, Biotic, Environment, Sustainable,</p>
		<p>Recall questions to start every lesson Recall tests Review sheets End of unit review sheets</p>
		<p>Revision Card preparation for every lesson Recall test Review sheet Repetition of use of revision cards for end of unit assessment</p>



The remainder of the half-term will be focussed on targeted revision specific for the group in preparation for their Summer exams.

