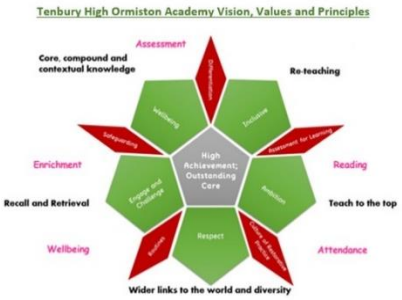
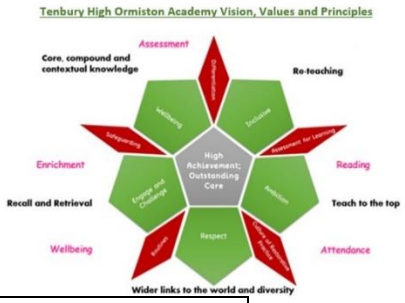
TENBURY HIGH
ORMISTON ACADEMY



Curriculum Overview for Biology
Year 11

Half Term 3: Ecology **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 **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.		Skim and Scan of source information Decoding terms Etymology of key terms
		Ecosystems, Carbon, Evaporated, precipitated, Animals, Plants, Respiration, Abiotic, Biotic, Environment, Sustainable,
		Recall questions to start every lesson Recall tests Review sheets End of unit review sheets
		Revision Card preparation Recall test revision Review sheet revision Repetition of use of revision cards for end of unit review sheet
Half Term 4: Ecology **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 **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. ***Pupils will also deepen their understanding of organisms through looking at cell structure and functions, cell specialisation and cell transport*** **Half Term 4: Revision**		Skim and Scan of source information Decoding terms Etymology of key terms
		Ecosystems, Carbon, Evaporated, precipitated, Animals, Plants, Respiration, Abiotic, Biotic, Environment, Sustainable,
		Recall questions to start every lesson Recall tests Review sheets End of unit review sheets
		Revision Card preparation for every lesson Recall test Review sheet Repetition of use of revision cards for end of unit assessment



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