



Subject	Year	Term
Biology	10	3
Topic		
Unit 7 - Ecology		
Content (Intent)		
Prior Learning (Topic) Unit 4 -Bioenergetics		
Unit 7 Ecology – Communities, Abiotic and Biotic factors, Adaptations, Levels of organisation (feeding relationships), Required Practical Transect, Predator prey cycle, Materials are cycled –c cycle, Water cycle Biodiversity and waste management, Land use and deforestation. Global warming, Maintaining Biodiversity.		
Future Learning (Topic) Unit 5 - Homeostasis		
What Knowledge and Skills will be taught (Implementation)		How will your understanding be assessed & recorded (Impact)
Knowledge Unit 7 Ecology – Communities, Abiotic and Biotic factors, Adaptations, Levels of organisation (feeding relationships), Required Practical Transect, Predator prey cycle, Materials are cycled –c cycle, Water cycle Biodiversity and waste management, Land use and deforestation. Global warming, Maintaining Biodiversity, Trophic levels, Food Production.		Key Piece of work (Homework) Pupils given a percentage and formative feedback provided for a targeted piece of homework so that they can respond to the teacher and make progress in the topic.
		End of topic test Pupils given a percentage, formative feedback and GCSE equivalent grade. Formative feedback provided.
Maths Skills – data collection, % cover, mean calculations, graph drawing.		Year 10 end of term 1, 2 and year exams Pupils given a percentage, formative feedback and GCSE equivalent grade.
Practical Skills – Required practical activity Investigating abiotic factor and distribution of a plant species.		Interleaving Topics Unit 2 Organisation and Unit 4 Bioenergetics – Key Terms and concepts will be reviewed prior to the start of the Unit 7 such as food molecules, the effect of temperature on enzymes, photosynthesis, aerobic and anaerobic respiration.
How can parents help at home?		
Ensure all class booklets are complete and homework submitted on time		
Assist in ensuring the active use of the EDUCAKE online learning platform where each pupil is given a personal log on from their teachers.		
Encourage pupils to revise for tests and exams and to create revision resources such as flash cards and posters.		
Ensure all pupils have all their resources required for science lessons, including booklets, pens and calculators		
Helpful further reading/discussion (including Reading and Vocabulary Lists)		
Reading AQA revision guides AQA revision cards Resources on Teams EDUCAKE online learning platform. GCSE POD	Vocabulary Lists Food Chain Food Web Abiotic, Biotic Ecosystem Population Community Habitat Predator Prey Adaptations Competition	Respiration Photosynthesis Aerobic Anaerobic Biodiversity Combustion Greenhouse gases Global warming deforestation Trophic Biotechnology Food security