

| Subject  | Year  | Term   |
|--|---|--|
| <b>Biology</b>   | <b>10</b>   | <b>3</b>   |
| Topic  |   |  |
| <b>Unit 7 - Ecology</b>  |   |  |
| Content (Intent)   |   |  |
| <b>Prior Learning (Topic)</b> Unit 4 -Bioenergetics  |   |  |
| <p><b>Unit 7 Ecology</b> – 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.</p>   |   |  |
| <b>Future Learning (Topic)</b> Unit 5 - Homeostasis  |   |  |
| What Knowledge and Skills will be taught<br>(Implementation)   | How will your understanding be assessed & recorded<br>(Impact)  |  |
| <p><b>Knowledge</b><br/> <b>Unit 7 Ecology</b> – 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.</p> <p><b>Maths Skills</b> – data collection, % cover, mean calculations, graph drawing.</p> <p><b>Practical Skills</b> – Required practical activity Investigating abiotic factor and distribution of a plant species.</p> <p><b>Y9 The Body, Health and Lifestyle and Unit 4 Bioenergetics</b><br/> – Key Terms and concepts will be reviewed prior to the start of this unit such as food molecules, the effect of temperature on enzymes, photosynthesis, aerobic/anaerobic respiration.</p> | <p><b>Key Piece of work (Homework)</b><br/> Pupils given a percentage and formative feedback provided.</p> <p><b>End of topic test</b><br/> Pupils given a percentage and GCSE equivalent grade. Formative feedback provided.</p> <p><b>Year 11 Assessment 2</b><br/> Pupils given a percentage and GCSE equivalent grade. Formative feedback provided.</p> |  |
| How can parents help at home?  |   |  |
| <p>Ensure all class notes are complete and homework submitted on time</p> <p>Assist in ensuring the active use of the EDUCAKE online learning platform where each pupil is given a personal log on from their teachers.</p> <p>Encourage pupils to revise for tests and exams and to create revision resources such as flash cards and posters.</p> <p>Ensure all pupils have all their resources required for science lessons, including booklets, pens and calculators</p>   |   |  |
| Helpful further reading/discussion (including Reading and Vocabulary Lists)  |   |  |
| <p><b>Reading</b><br/> AQA revision guides<br/> AQA revision cards<br/> Resources on Teams<br/> EDUCAKE online learning platform.</p>  | <p><b>Vocabulary Lists</b><br/> Food Chain<br/> Food Web<br/> Abiotic, Biotic<br/> Ecosystem<br/> Population<br/> Community<br/> Habitat<br/> Predator<br/> Prey<br/> Adaptations<br/> Competition</p>  | <p>Respiration<br/> Photosynthesis<br/> Aerobic<br/> Anaerobic<br/> Biodiversity<br/> Combustion<br/> Greenhouse gases<br/> Global warming<br/> deforestation<br/> Trophic<br/> Biotechnology<br/> Food security</p> |