

Subject	Year	Term
Environmental Science	12	1
<b>Topic</b>		
<b>Conservation Biology</b>		
<b>Content (Intent)</b>		
<b>Prior Learning: KS4 national curriculum and KS4 B7 Ecology topic</b>		
<ul style="list-style-type: none"> <li>• The importance of biodiversity</li> <li>• How humans influence biodiversity, with examples in a range of contexts.</li> <li>• Methods of conserving biodiversity</li> <li>• How adaptation to the environment affects species' habitat requirement and influences conservation decision-making</li> <li>• Terminology to describe the roles of living organisms in their habitats and their interactions with the physical environment.</li> </ul>		
<b>Future Learning: Research methods: Standard environmental techniques, Fieldwork and lab skills, Specialist techniques, residential field course.</b>		
<b>How will knowledge and skills be taught? (Implementation)</b>	<b>How will your understanding be assessed &amp; recorded (Impact)</b>	
<p><b>Practical work:</b> suggested practicals investigating the difference in species abundance in different habitats. Use of quadrats and line transects in measuring the distribution of spp. Kick sampling measuring river spp abundance at a local nature reserve.</p> <p><b>Written:</b> Notes and completed worksheets in exercise books. Written explanation on key ecological concepts</p>	<p>- 3 x <b>Standard Homework Tasks:</b> Level given. Written feedback. Response expected.</p> <p>-1 x <b>Mock exam at end of term 1, and another at end of term 5:</b> Level given. Verbal and written, feedback to class and individuals. <b>End of section open book in class test</b> by Easter.</p>	
<b>How can parents help at home?</b>		
<ul style="list-style-type: none"> <li>• Wilding – Isabella Tree</li> <li>• There Is No Planet B: A Handbook for the Make Or Break Years – Mike Berners-Lee</li> <li>• Adventures of a young naturalist – David Attenborough</li> <li>• Bee Quest - Dave Goulson</li> <li>• A buzz in the meadow - Dave Goulson</li> <li>• Silent Spring - Rachel Carson</li> </ul>		
<b>Helpful further reading/discussion</b>		
<p><b>Reading</b> Any BBC David Attenborough series <a href="https://www.sciencedaily.com/">https://www.sciencedaily.com/</a> <a href="https://www.iucn.org/">https://www.iucn.org/</a></p>	<p><b>Vocabulary Lists</b> <i>Captive breeding programme, biotic and abiotic conditions, IUCN, ecosystem services, EU CFP, Wildlife and countryside act</i></p>	<p><b>Careers Links</b> <b>Environmental health officer</b> <b>Ecologist</b> <b>Biodiversity conservation</b></p>