

Subject	Year	Term
Biology	12	3
Topic		
Species Diversity, Taxonomy & Biodiversity		
Content (Intent)		
Prior Learning (Topic) Year 11 topic B6		
<ul style="list-style-type: none"> • Concept of a species • Courtship behaviour • Phylogeny • Taxonomy and the binomial system • Immunology & genome sequencing in investigating evolutionary relationships • Biodiversity, species richness & index of diversity • Effect of farming techniques on biodiversity • Investigating the abundance and distribution of species. 		
Future Learning (Topic) Year 13 topic: Evolution & Speciation		
How will knowledge and skills be taught? (Implementation)	How will your understanding be assessed & recorded (Impact)	
<p><i>Demos</i> Use of abiotic factor meters Use of quadrats and transects</p> <p><i>Practical work</i> Quadrats practical to investigate population size Transects practical to investigate species distribution</p> <p><i>Written</i> Class notes Past paper questions in class Past paper questions in homeworks</p>	<p>- 3 x standard homeworks (Grade given. Written & verbal feedback. Response expected.) - No end of topic test, but it is assessed in the Year 12 exam in June.</p>	
How can parents help at home?		
<p>Look at the topic specific resources on the VLE Use appropriate youtube channels: cognito, freesciencelessons, Crash Course Biology. Encourage students to use the textbook issued. Take an interest! Ask your children what they have learnt and be curious about their learning.</p>		
Helpful further reading/discussion		
<p>Reading New Scientist Biological Science Review Magazine</p>	<p>Vocabulary Lists <i>Species, courtship, phylogeny, taxonomy, domain, kingdom, phylum,</i></p>	<p>Careers Links Biochemistry Biological sciences Zoology</p>

<p>The Biologist Magazine – Royal Society of Biology Royal Society of Biology blog The Ancestors Tale – Richard Dawkins The Selfish Gene – Richard Dawkins</p>	<p><i>class, order, family, genus, species, eukarya, archaea, bacteria, quadrat, transect, abundance, frequency, distribution, biodiversity, species richness.</i></p>	<p>Radiology Ecology Evolutionary biology Farming & agriculture</p>
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