

Prior Learning:		<i>This unit links to 7A Cells - The structure of plant cells. 7B Reproduction - Sexual reproduction (gametes and fertilisation). 8A – The importance of surface area. Skills: Independent, dependent and control variables; writing a method &amp; conclusion</i>			
Lesson Number	Title	Lesson Objectives	Content	Key words	Assessment/Homework
1	Classification	How is classification useful?	<ul style="list-style-type: none"> <li>Recall the 3 domains and the 6 kingdoms of life</li> <li>Describe how organisms are classified</li> <li>Describe the importance of classification</li> <li>Identify the Genus and Species of an organism from its Binomial name</li> </ul>	<ul style="list-style-type: none"> <li>Classify</li> <li>Archea</li> <li>Eukaryotic</li> <li>Prokaryotic</li> <li>Genus</li> <li>Species</li> <li>Binomial name</li> </ul>	
2	Biodiversity	Why is biodiversity important?	<ul style="list-style-type: none"> <li>Explain the importance of biodiversity</li> <li>Describe reasons why some animals have become extinct</li> <li>Describe some examples of conservation efforts</li> </ul>	<ul style="list-style-type: none"> <li>Biodiversity</li> <li>Extinction</li> <li>Conservation</li> </ul>	
3	<b>Required practical:</b>  Sampling organisms	What is the population of daisies?	<ul style="list-style-type: none"> <li>Describe how to use samples to calculate estimates</li> <li>Describe how to use quadrats to estimate the population of organisms (daisies)</li> <li>Calculate mean, mode and median</li> </ul>	<ul style="list-style-type: none"> <li>Random</li> <li>Population</li> <li>Quadrat</li> <li>Mean</li> <li>Mode</li> <li>Median</li> </ul>	Teacher Assessment
4	Types of reproduction	What are sexual and asexual reproduction?	<ul style="list-style-type: none"> <li>Compare the differences between sexual and asexual reproduction</li> <li>Recall examples of asexual reproduction in plants</li> <li>Explain characteristics of offspring produced by sexual and asexual reproduction</li> </ul>	<ul style="list-style-type: none"> <li>Fertile</li> <li>Inherited</li> <li>Variation</li> <li>Gametes</li> <li>Fertilisation</li> <li>Zygote</li> <li>Runners</li> <li>Tubers</li> </ul>	

5	Pollination	What are flowers for?	<ul style="list-style-type: none"> <li>• Label the structure of plant</li> <li>• Describe the structure of a flower</li> <li>• Explain how pollination occurs by animals or wind</li> <li>• Explain how plants ensure cross-pollination</li> </ul>	<ul style="list-style-type: none"> <li>• Carpel</li> <li>• Stigma</li> <li>• Style</li> <li>• Ovary</li> <li>• Ovule</li> <li>• Anther</li> <li>• Filament</li> <li>• Stamen</li> <li>• Sepal</li> <li>• Cross pollination</li> </ul>	
6	Fertilisation	How is a seed made?	<ul style="list-style-type: none"> <li>• Describe how pollination leads to fertilisation</li> <li>• Describe the formation of seeds and fruits</li> <li>• Explain the function of seeds and fruits</li> </ul>	<ul style="list-style-type: none"> <li>• Pollen tube</li> <li>• Zygote</li> <li>• Embryo</li> <li>• Germinate</li> <li>• Seed dispersal</li> </ul>	20-mark multiple choice quiz
7	Germination	How do seeds grow?	<ul style="list-style-type: none"> <li>• Describe what germination is</li> <li>• Describe what is needed for germination to occur</li> <li>• Describe how plants grow by photosynthesis</li> <li>• Describe how leaves are adapted for photosynthesis</li> </ul>	<ul style="list-style-type: none"> <li>• Respiration</li> <li>• Dormant</li> <li>• Photosynthesis</li> <li>• Chloroplast</li> <li>• Surface area</li> </ul>	
<b>Revision and Test</b>					
<b>Where we will use these ideas again</b>		<ul style="list-style-type: none"> <li>• Year 9 (GCSE) – B1A Cell structure, B1B Respiration, B2 Photosynthesis</li> <li>• Year 10 (GCSE) – B5 Seed germination required practical</li> <li>• Year 11 (GCSE) –B6 Asexual vs Sexual reproduction, B7 Classification, B7 Sampling required practical, B8 Biodiversity &amp; extinction</li> </ul>			