Yr13 Bioloy – Unit 3.7



	Sequence			
TOPIC (S)	1. Inheritance	3. Evolution may lead to speciation		
Genetics,	2. Populations	4. Populations in ecosystems		
popualtions,				
evolution &				
ecosystems				
Knowledge & Skills development	<ul> <li>Define genotype, phenotype, heterozygot</li> <li>Use fully labelled monohybrid and dihybri the results of dominant, recessive and code</li> <li>Use a chi square test.</li> <li>Use the hardy-weinberg principle</li> <li>Describe how mutations occur</li> <li>Define interspecific, intraspecific, abiotic a</li> <li>Describe and calculate population sizes of using quadrats.</li> <li>Describe the mark-release-recapture met number of a species.</li> <li>Describe and explain succession</li> <li>Show understanding of the need to mana between human needs and conservation the sustainability of natural resources</li> <li>Evaluate evidence and data concerning is conservation of species and habitats and evidence</li> <li>Use given data to calculate the size of a p using the mark-release-recapture method</li> </ul>	<ul> <li>us and homoezygous id crosses to predict dominant.</li> <li>Expla</li> <li>Defir</li> <li>expla show</li> <li>and biotic.</li> <li>f immobile organisms</li> <li>Expla show</li> <li>Expla</li> <li>body</li> <li>Expla</li> <li>change</li> <li>form</li> <li>Expla</li> <li>change</li> <li>change&lt;</li></ul>	ribe and explain the effects of ptive selection. in the stages that lead to spec ne allopatric and sympatric spec in why individuals within a po a wide range of variation in p in why genetic drift is importa- in how natural selection and i ge in the allele and phenotype ation of a new species in how evolutionary change o ted in a great diversity of spec	stabilising, directional and ciation eciation pulation of a species may whenotype ant only in small populations solation may result in e frequency and lead to the ver a long period of time has cies.
Assessment /	Exam questions – teacher Exam questions –	– self Extended writing task –	Deep marking of required	Topic assessment
Feedback Opportunities	assessed assessed	teacher assessed practical in lab books		
Cultural Capital	Chester Zoo Visit	I	1	1

SMSC / Promoting British Values (Democracy, Liberty, Rule of Law, Tolerance & Respect)	<ul> <li>Discuss issues relating to conservation of species and habitats.</li> <li>understanding of the need to manage the conflict between human needs and conservation in order to maintain the sustainability of natural resources</li> </ul>		
Reading opportunities	Recommended Read: Richard Leaky: The Origin of Humankind		
Key Vocabulary	Independent Variable, Dependent Variable, Control Variables, Method, Conclusion, Precaution, Evaluation, Reliable, Precision, Valid, Anomaly, Describe, Explain, Compare, Analyse, Calculate, Suggest, Absolute, Uncertainty, Error, Gene, Locus, Alleles, Homozygous, Heterozygous, Dominant, Recessive, Codominant, Monohybrid, Dihybrid, Haploid, Diploid, Phenotype, Genotype, Heritable, Epistasis, Autosomal linkage, Autosome, Epistasis, Speciation, Sympatric, Allopatric, Niche, Abiotic, biotic, Interspecific, Intraspecific, Succession, Conservation		
Digital Literacy	The use of excel to plot graphs and analyse data MSOffice35 apps including SharePoint		
Cross-Curricular Links	Numeracy/Maths – averages (means), reading scales, graph plotting, lines of best fit, using and rearranging equations, using scientific calculators		
Careers	Zoologist, Wildlife conservationist, wildlife management,		