

Subject	Year	Term
Biology	13	1
Topic		
Inheritance		
Content (Intent)		
<b>Prior Learning (Topic) B6 – Inheritance, variation &amp; evolution.</b>		
<ul style="list-style-type: none"> <li>• Genotype &amp; phenotype</li> <li>• Inheritance of recessive, dominant, co-dominant alleles</li> <li>• Inheritance of genes with multiple alleles</li> <li>• Use of genetic cross diagrams in monohybrid and dihybrid crosses, crosses involving sex-linkage, autosomal linkage, multiple alleles, epistasis.</li> <li>• Use of chi-squared to compare observed phenotypic ratios with expected ratios.</li> <li>• Use of the Hardy-Weinberg equation to calculate allele and genotype frequencies.</li> </ul>		
<b>Future Learning (Topic) Later in year 13: Mutations &amp; Gene expression; Gene Technologies; Evolution &amp; speciation</b>		
How will knowledge and skills be taught? (Implementation)	How will your understanding be assessed & recorded (Impact)	
<p><i>Demos</i> None in this topic</p> <p><i>Practical work</i> None in this topic</p> <p><i>Written</i> Class notes Past paper questions in class Past paper questions in homeworks</p>	<p>- 3 x assessed homeworks (Grade given. Written &amp; verbal feedback. Response expected.)</p> <p>-1 x end of topic test (Grade given. Verbal feedback to class and individuals.)</p>	
How can parents help at home?		
<p>Look at the topic specific resources on the VLE</p> <p>Use appropriate youtube channels: cognito, freesciencelessons, Crash Course Biology.</p> <p>Encourage students to use the textbook issued.</p> <p>Take an interest! Ask your children what they have learnt and be curious about their learning.</p>		
Helpful further reading/discussion		
<p><b>Reading</b></p> <p>The Selfish Gene – Richard Dawkins</p> <p>The Double Helix – James Watson</p> <p>Genome – Matt Ridley</p>	<p><b>Vocabulary Lists</b></p> <p><i>Genotype, phenotype, homozygous, heterozygous, locus, recessive, dominant, co-dominant, epistasis, sex linkage, autosomal linkage.</i></p>	<p><b>Careers Links</b></p> <p>Biochemistry</p> <p>Biomedical science</p> <p>Biological sciences</p> <p>Medicine</p> <p>Veterinary medicine</p>

New Scientist Biological Science Review Magazine The Biologist Magazine – Royal Society of Biology Royal Society of Biology blog		Bioveterinary science Nursing Midwifery Healthcare science Geneticist Evolutionary biologist
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