

Subject	Year	Term			
Biology	13	2			
Торіс					
Mutations & Gene Expression					
Content (Intent)					
Prior Learning (Topic) Year 1 protein synthesis; Cell Divisi	on & Genetic Diversity	gestion; Nucleic acids, DNA,			
 duplication and translocat Gene mutations are rando The role of gene mutation Transcriptional factors Totipotent cells can divide part of their DNA during d Differences between totip Evaluating use of different 	tion om but mutation rate is increas is in cancer e and produce any type of body	cell. The specialise by only translating ultipotent and unipotent cells. man disorders.			
Future Learning (Topic) Year How will knowledge and skil (Implementation) Demos How different mutations change the	Is be taught? How will recorded - 4 x asse	your understanding be assessed & I (Impact) essed homeworks (Grade given. & verbal feedback. Response			
sequence Practical work None in this topic	expected -1 x end	expected.) -1 x end of topic test (Grade given. Verbal feedback to class and individuals.)			
<i>Written</i> Class notes Past paper questions in class Past paper questions in homeworks					
How can parents help at ho					
Look at the topic specific res					
	-	elessons, Crash Course Biology.			
Encourage students to use th Take an interest! Ask your ch		rnt and be curious about their			
earning.	indicit what they have leaf				
Helpful further reading/disc	ussion				
Reading	Vocabulary Lists	Careers Links			

Reading	Vocabulary Lists	Careers Links
New Scientist	Mutation, tumour	Biochemistry
Biological Science Review	suppressor gene, proto-	Biomedical science
Magazine	oncogene, oncogene,	Biological sciences

The Biologist Magazine –	epigenome, histone,	Medicine
Royal Society of Biology	acetylation, methylation,	Veterinary medicine
Royal Society of Biology blog	transcriptional factor,	Bioveterinary science
A Life Decoded – Craig	promoter region, stem cells,	Healthcare science
Venter	totipotent, pluripotent,	Radiology
The Immortal Life of	multipotent, unipotent,	Geneticist
Henrietta Lacks – Rebecca	induced pluripotent stem	Oncologist
Skloot	cells.	Cancer research
Genome – Matt Ridley		