Year 13

Subject: Biology

Fortnight	Teacher 1		Teacher 2	
1	3.5.2 Respiration	**Required practical 9**: Investigation into the effect of a named variable on the rate of respiration of cultures of single-celled organisms.	**3.6 Organisms respond to changes in their internal and external environments** **3.6.1 Stimuli, both internal and external, are detected and lead to a response** 3.6.1.1 Survival and response	**Required practical 10:** Investigation into the effect of an environmental variable on the movement of an animal using either a choice chamber or a maze.
2	**3.7 Genetics, populations, evolution and ecosystems** 3.7.1 Inheritance		3.6.1.2 Receptors 3.6.1.3 Control of heart rate	
3	3.7.1 Inheritance		**3.6.2 Nervous coordination** 3.6.2.1 Nerve impulses	
4	3.7.2 Populations		3.6.2.2 Synaptic transmission 3.6.3 Skeletal muscles are stimulated to contract by nerves and act as effectors	
5	3.7.2 Populations		**3.6.4 Homeostasis is the maintenance of a stable internal environment** 3.6.4.1 Principles of homeostasis and negative feedback 3.6.4.2 Control of blood glucose concentration	**Required practical 11**: Production of a dilution series of a glucose solution and use of colorimetric techniques to produce a calibration curve with which to identify the concentration of glucose in an unknown 'urine' sample.

6	3.7.3 Evolution may lead to speciation		3.6.4.3 Control of blood water potential **3.8 The control of gene expression** 3.8.1 Alteration of the sequence of bases in DNA can alter the structure of proteins	
7	3.7.3 Evolution may lead to speciation		**3.8.2 Gene expression is controlled by a number of features** 3.8.2.1 Most of a cell's DNA is not translated 3.8.2.2 Regulation of transcription and translation	
8	3.7.4 Populations in ecosystems	**Required practical 12:** Investigation into the effect of a named environmental factor on the distribution of a given species	3.8.2.3 Gene expression and cancer **3.8.3 Using genome projects** **3.8.4 Gene technologies** 3.8.4.1 Recombinant DNA technology	MockMock Topics 5 & 6
9	Revision		3.8.4.1 Recombinant DNA technology	Mockmock review
10	**Mocks**		**Mocks**	
11	Mock Review		3.8.4.2 Differences in DNA between individuals of the same species can be exploited for identification and diagnosis of heritable conditions 3.8.4.3 Genetic fingerprinting	
12	3.7.4 Populations in ecosystems		Essay Training	
13	Re-teach AS Content		Essay Training	
14	Re-teach AS Content		Essay Training	
15	Revision - exam practice		Revision - exam practice	
16	Revision - exam practice		Revision - exam practice	
17	Revision/Exams		Revision/Exams	

18	Revision/Exams		Revision/Exams	
19	Exams		Exams	