

**Science - KS4 YEAR 10 GCSE BIOLOGY- LEARNING JOURNEY 2018-2019**

AO1: Demonstrate knowledge and understanding of: scientific ideas; scientific techniques and procedures. (40%)

AO2: Apply knowledge and understanding of: scientific ideas; scientific enquiry, techniques and procedures (in an unfamiliar context). (40%)

AO3: Analyse information and ideas to: interpret and evaluate; make judgments and draw conclusions; develop and improve experimental procedures. (20%)

Week	Date	Key Constructs and Assessment Objectives	Assess Schedule	Topic
1	03.09.18	Cell biology interleaving	C1	Biology Paper 1 4.1 4.3
2	10.09.18	Organisation interleaving	C1	
3	17.09.18	Communicable diseases, viral, bacterial	C1	
4	24.09.18	Fungal, protist, human defence systems	C1	
5	01.10.18	Vaccination, antibiotics, drug development	C1	
6	08.10.18	Monoclonal antibodies, (HT) plant disease, plant defence	C1	
7	15.10.18	Interleaving	C1	
8	29.10.18	Photosynthesis, rate of photosynthesis, RPA 6	P1	Biology paper 1 4.4 and biology paper 2 4.5
9	05.11.18	Uses of glucose, aerobic and anaerobic respiration	P1	
10	12.11.18	Response to exercise, metabolism	P1	
11	19.11.18	Paper 1 assessment	P1	
12	26.11.18	Homeostasis, nervous system RPA 7	P1	
13	03.12.18	The brain, the eye	P1	
14	10.12.18	Control of body temperature, endocrine system, control of blood glucose	P1	
15	17.12.18	Maintaining water and nitrogen balance	P1	
16	07.01.19	Hormones in human reproduction, contraception, infertility (HT)	B1	Biology paper 2 4.5 - 4.6
17	14.01.19	Negative feedback ,plant hormones, RPA 8	B1	
18	21.01.19	Assessment and Interleaving	B1	
19	28.01.19	Sexual and asexual reproduction and advantages and disadvantages	B1	
20	04.02.19	Meiosis, DNA and genome	B1	
21	11.02.19	DNA structure,	B1	
22	25.02.19	Genetic inheritance, inherited disorders, sex determination	B2	Biology Paper 2 4.6-4.7
23	04.03.19	The understanding of genetics	B2	
24	11.03.19	Variation, selective breeding	B2	
25	18.03.19	Genetic engineering, cloning	B2	
26	25.03.19	Evolution, theory of evolution	B2	
27	01.04.19	Evidence for evolution, fossils, resistant bacteria	B2	
28	22.04.19	Speciation, extinction	Rev	Biology paper 2 4.7
29	29.04.19	Classification, communities	Rev	
30	06.05.19	<b>Year 10 Exams</b>	C2	
31	13.05.19	Biotic and abiotic factors, adaptations	C2	
32	20.05.19	Levels of organisation and RPA 9	C2	
33	03.06.19	Trophic levels, pyramids of biomass, transfer of biomass	C2	Biology paper 2 4.7
34	10.06.19	How materials are cycled, decomposition and RPA 10	C2	
35	17.06.19	Impact of environmental change, biodiversity, waste management, land use	C2	
36	24.06.19	deforestation, global warming, maintaining biodiversity	C2	
37	01.07.19	<b>College taster days</b> , Food security, farming techniques	C2	
38	08.07.19	Fisheries, biotechnology, Paper 2 Assessment	C2	
39	15.07.19	Work experience		
40				