

Science - KS4 YEAR 10 GCSE - 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	Practice	Hwk	Assess Schedule	Topic
1	03.09.18	Cell Biology Interleaving	C1	C1	Interim Main	Biology Paper 1 4.1-
2	10.09.18	Organisation Interleaving	C1	C1		
3	17.09.18	Communicable diseases (viral, bacterial, fungal & protist)	C1	C1		
4	24.09.18	Human defence systems and vaccination	C1	C1		
5	01.10.18	Antibiotics & painkillers, discovery & development of drugs	C1	C1		
6	08.10.18	Photosynthesis	C1	C1		
7	15.10.18	Respiration	C1	C1		
8	29.10.18	Atomic structure Interleaving	P1	P1	Main Interim Main	Chemistry Paper 1 5.1-
9	05.11.18	Bonding Interleaving	P1	P1		
10	12.11.18	Conservation of mass, formula mass, mass changes, uncertainty	P1	P1		
11	19.11.18	Concentration of solns, HT: moles, balancing, limiting reactants	P1	P1		
12	26.11.18	Metal oxides, reactivity series, extraction of metals, HT: OILRIG	P1	P1		
13	03.12.18	Acids & metals, pH scale, neutralisation, sol. salts, HT: s/w acids	P1	P1		
14	10.12.18	Electrolysis, HT: half equations	P1	P1		
15	17.12.18	Exothermic and endothermic reactions, HT: bond energies	P1	P1		
16	07.01.19	Energy Interleaving	B1	B1	Interim Main	Physics Paper 1 6.1-6.4
17	14.01.19	Electricity Interleaving	B1	B1		
18	21.01.19	Density, change of state, internal energy	B1	B1		
19	28.01.19	Specific heat capacity, latent heat, gas pressure	B1	B1		
20	04.02.19	Atomic structure, isotopes, development of model of atom	B1	B1		
21	11.02.19	Radioactive decay, nuclear equations, half life, contamination	B1	B1		
22	25.02.19	Homeostasis intro, nervous system, introduce Endocrine system	B2	B2	Interim Main	Biology Paper 2 4.5-4.7
23	04.03.19	Blood glucose, reproduction, HT: Infertility, feedback	B2	B2		
24	11.03.19	Reproduction, meiosis, DNA & genome	B2	B2		
25	18.03.19	Inheritance, disorders, sex determination	B2	B2		
26	25.03.19	Variation, evolution, selective breeding	B2	B2		
27	01.04.19	Genetic eng., fossils, extinction, resistant bacteria, classification	B2	B2		
28	22.04.19	Adaptations, interdependence & comp, Ecosystems	Rev	Rev	Interim Main	Chemistry Paper 2 5.6-
29	29.04.19	Ecosystems, Biodiversity and effect of human activity	Rev	Rev		
30	06.05.19	Year 10 EXAMS	C2	C2		
31	13.05.19	Rates of reaction RPA's	C2	C2		
32	20.05.19	RPA's cont, Reversible reactions, HT: Change in equilibrium	C2	C2		
33	03.06.19	Organic Chemistry	C2	C2	Main Interim Main	Chemistry Paper 2 5.6-5.10
34	10.06.19	Chemical analysis, RPA chromatography, gas tests	C2	C2		
35	17.06.19	Chemistry of the atmosphere	C2	C2		
36	24.06.19	Using resources and potable water	C2	C2		
37	01.07.19	College taster days	C2	C2		
38	08.07.19	Waste water, HT: extrac. Metals. LCA's and reduce resources	C2	C2		
39	15.07.19	Work experience				
40						