

Year 11 Combined Science Teaching Plan (Sept 2024-July 2025)

Week Beginning	Topic Covered	Spec. Points	Revision guide (H)	Revision guide (F)
2/9 Week 1	B6: DNA, genetic terms, Punnett squares, inheriting genetic disorders, determining sex	4.6.1.3-4.6.1.6	71-74	69-72
9/9 Week 2	B6: variation, evolution, evidence for evolution, fossils, extinction, explaining resistant bacteria.	4.6.2.1-4.6.2.2 4.6.3.1-4.6.3.4	75-76 79-80	73-76 79
16/9 Week 3	B6: genetic engineering, selective breeding and classification	4.6.2.3-4.6.2.4 4.6.4	77-78 81	77-78 80-81
23/9 Week 4	C8: pure substances, formulations, chromatography RP, gas tests	5.8.1.1-5.8.2.4	153-156	150-154
30/9 Week 5	C9: gases in the early atmosphere and today, explaining atmospheric changes, the greenhouse effect, human impact on the atmosphere, climate change, carbon footprint, atmospheric pollutants	5.9.1.1-5.9.3.2	157-160	155-158
7/10 Week 6	B7: communities, competition, abiotic and biotic factors	4.7.1.1-4.7.1.3	83-84	83-84
14/10 Week 7	B7: adaptations and levels of organisation, determining population size RP	4.7.1.4, 4.7.2.1	85-88	85-88
21/10 Week 8	B7: carbon cycle, water cycle, biodiversity, waste management	4.7.2.1-4.7.2.2	89-91	89-91
October Half Term				
4/11 Week 9	B7: land use, deforestation, global warming, maintaining biodiversity	4.7.3.1-4.7.3.6	91-94	91-94
11/11 Week 10	PPE 1 Assessment – Biology Paper 2 and Chemistry Paper 1			
18/11 Week 11	PPE 1 Assessment – Biology Paper 2 and Chemistry Paper 1			
25/11 Week 12	C10: using Earth's resources, reducing the use of resources and life cycle assessments	5.10.1.1 5.10.1.4- 5.10.2.2	161-163	159-162
2/12 Week 13	C10: potable water, desalination inc. RP and treating waste water	5.10.1.2- 5.10.1.3	164-165	163-165
PPE 1 Assessment - reteach				
9/12 Week 14	P5: scalar and vector quantities, contact and non-contact forces, gravity ($W=mg$) and resultant forces	6.5.1.1-6.5.1.4	201-203	203-205
16/12 Week 15	P5: work done ($W=Fs$) and Hooke's Law RP: investigating elastic forces	6.5.2 6.5.3	203-206	205-207
Christmas Holiday				
6/1 Week 16	P5: forces and motion: distance, displacement, speed ($s=vt$), velocity, distance-time graphs	6.5.4.1.1- 6.5.4.1.4	207 209	208 210
13/1 Week 17	P5: acceleration, velocity-time graphs, terminal velocity, Newton's First and Second Laws	6.5.4.1.5, 6.5.4.2.1- 6.5.4.2.2	208-211	209 211-212
20/1 Week 18	P5: Newton's third Law, investigating motion (2 nd Law) RP, stopping distances, reaction times, H: momentum	6.5.4.2.2- 6.5.4.3, H: 6.5.5	212-216	214-217
27/1 Week 19	PPE 2 Revision – Chemistry Paper 2 and Biology Paper 1			
3/2 Week 20	PPE 2 Assessment – Chemistry Paper 2, Biology Paper 1 and Physics Paper 1			
10/2 Week 21	PPE 2 Assessment – Chemistry Paper 2, Biology Paper 1 and Physics Paper 1			
February Half Term				
24/2 Week 22	PPE 2 Reteach – Chemistry Paper 2 and Biology Paper 1			

3/3 Week 23	P5 consolidation	6.5	203-216	205-217
10/3 Week 24	P6: transverse and longitudinal waves, properties of waves, wave experiments and refraction RP: ripple tank and waves on a string	6.6.1 6.6.2.2	218-219 221	219-222
17/3 Week 25	P6: uses and properties of EM waves RP: investigating infra-red radiation	6.6.2	220 222-226	223-228
24/3 Week 26	P7: permanent and induced magnets and electromagnetism.	6.7	227-230	229-230
31/3 Week 27	P7 H: the motor effect	6.7	227-230	229-230
Easter Holiday				
21/4 Week 28	Final Revision			
28/4 Week 29	Final Revision			
5/5 Week 30	Final Revision			
12/5 Week 31	Final Revision			
19/5 Week 32	Final Revision			
May Half Term				
2/6 Week 33	Final Revision			
9/6 Week 34	Final Revision			
16/6 Week 35	Final Revision			
23/6 Week 36	Final Revision			