

			YEAR 9 (26-27) Combined & Triple		
Date	Week	School Week	Bio /2	Chem /2	Phys /2
7-Sep	2	1	1. Cell Structure 2. The size of cells	1. Atoms, elements and compounds 2. Chemical Equations	1. Conservation of Energy & stores 2. GPE stores
14-Sep	3	2			
21-Sep	4	1	3. RP - Observing cells 4. Microscopy	3. Evidence of chemical equations (gas tests) 4. Mixtures and pure substances	3. KE stores 4. Elastic energy stores
28-Sep	5	2			
5-Oct	6	1	5. Eukaryotic and prokaryotic cells 6. Specialised Cells	5. Formulations 6. Recap Filtration, crystallisation	5. Work done 6. Power
12-Oct	7	2			
19-Oct	8	1	7. Cell Differentiation 8. Diffusion	7. Distillation and fractional distillation 8. Chromatography	7. Efficiency 8. Generating Electricity
HALF TERM			HALF TERM		
2-Nov	9	2			
9-Nov	10	1	9. Osmosis a. Revision	9. Chromatography RP 10. Chromatography follow-up	9. Methods of generating E a. Revision
16-Nov	11	2			
23-Nov	12	1	b. Exam c. Feedback	b. Exam c. Feedback	b. Exam c. Feedback
30-Nov	13	2			
7-Dec	14	1	10. RP1 - Osmosis in plants 11. RP2 - Osmosis in plants	10. History of the atom 11. Structure of the atom	10. Energy Analysis 11. Trends
14-Dec	15	2			
CHRISTMAS HOLIDAY			CHRISTMAS HOLIDAY		
4-Jan	16	1	14. Active transport 15. Exchanging materials 1	12. Atoms and isotopes 13. Electronic structures	1. States of matter & kinetic theory 2. Internal energy & latent heat
11-Jan	17	2			
18-Jan	18	1	16. Exchanging materials 2 17. Cell division	Revision C1 Test	3. SHC 4. RP1 - SHC
25-Jan	19	2			
1-Feb	20	1	18. Growth and differentiation 19. Stem cells	14. Feedback and re-cap periodic table 15. Development of the periodic table	5. RP2 - SHC 6. Thermal transfer and insulation
8-Feb	21	2			
HALF TERM			HALF TERM		
22-Feb	22	1	20. Stem cell dilemmas a. Revision	16. Noble gases 17. Group 1 (recap test for H2)	7. Density 8. RP - Density of irregular shapes
1-Mar	23	2			
8-Mar	24	1	b. B1 & B2 Test c. Feedback	18. Group 7 19. Group 7 displacement	9. Gas pressure and Volume a. Revision
15-Mar	25	2			
22-Mar	26	1	1. Organisation and the digestive system 2. RP1 - The chemistry of food	20. Explaining trends 21. Transition Elements	b. P2 & P4 Test c. Feedback
EASTER HOLIDAY			EASTER HOLIDAY		
12-Apr	27	2			
19-Apr	28	1	3. RP2 - follow up and Enzymes 4. Enzymes in digestion	Revision C2 Test	1. Current and charge $Q = I \times t$ 2. Voltage & Resistance, $V = I \times R$
26-Apr	29	2			
3-May	30	1	5. Factors affecting enzyme action 6. RP1 - pH on amylase	22. Feedback and re-cap particle model 23. Changes of state	3. RP1 - Length of Wire 4. RP2 - Length of Wire
10-May	31	2			
17-May	32	1	7. RP2 - pH on amylase 8. Making digestion efficient	24. Atoms into ions: Metals 25. Atoms into ions: Non-metals	5. I-V graphs, Symbols, & Component 6. Series circuits
24-May	33	2			
HALF TERM			HALF TERM		
7-Jun	34	1	1. The blood 2. The blood vessels	26. Testing for metal ions 27. Testing for non-metal ions	7. Parallel circuits 8. Electricity calculations
14-Jun	35	2			
21-Jun	36	1	3. The heart 4. Heart dissection	28. Follow-up 29. Revision	9. Mains Electricity 10. National grid and Transformers
28-Jun	37	2			
5-Jul	38	1	5. Cardiovascular diseases 6. Gas exchange in the lungs & K.C.	30. C3 part 1 Test 31. Follow-up	11. Electrical Energy, $E = V \times Q$, and Power $P = I \times V$ 12. P_{avg} and catch up
12-Jul	39	2			
19-Jul	40	1			13. Electrical charges and fields

YEAR 10 (27-28) Combined		
Bio /3	Chem /3	Phys /3
7. Plant cells, tissues and organs 8. Plant transport systems 9. Stomata	1. Atoms into ions re-cap 2. Ionic bonding 3. Predicting Formula	1. Atomic structure 2. Isotopes & Radioactive decay 3. Nuclear radiation
	Include extra lesson for ionic bonding practice	
10. Transpiration 11. Factors affecting transpiration 12. Revision	4. Giant ionic structures 5. Covalent bonding 6. Covalent bonding practice	4. Nuclear decay equations 5. Activity and Dice game 6. Half life
12. Organisation Assessment 13. Feedback 14. Health & Disease	7. Structure of simple molecules 8. Effect of intermolecular forces 9. Giant covalent structures	7. Uses of Radiation & Safety 8. History of the atom 1/2 9. History of the atom 2/2
2. Communicable diseases 3. Preventing infection 4. Infectious Diseases part 1	10. Fullerenes and Graphene 11. Bonding in metals 12. Giant metallic structures	a. Revision b. P7 Test c. Feedback
HALF TERM		
Exam question practice		
5. Infectious Diseases part 2 6. Human defence responses Part 1 & P.C.	13. Comparing bonding 14. C3 part 2 test 15. Feedback	1. Vectors and scalars 2. Forces & Freebody 3. Resolution of forces
1. Vaccination 2. Immunity 3. Antibiotics and penicillins either	16. Relative formula Mass percentage by mass 17. The mole	4. Newton's 1st law 5. Newton's 2nd Law 6. RP1 - Force
4. Developing drugs 1. Non-communicable diseases 2. Cancer part 1	18. Balancing equations 19. Calculating reacting masses 20. From Masses to moles	7. RP2 - Force 8. Newton's 3rd Law & Catch up 9. Weight & Mass
CHRISTMAS HOLIDAY		
3. Cancer part 2 & K.C. 4. Smoking 5. Alcohol and other carcinogens	21. Expressing concentrations 22. C4 Test 23. Feedback	10. RP1 - Force and elasticity 11. RP2 - Force and elasticity 12. Parallelograms of vectors
6. Diet, exercise, and disease 7. Revision Diabetes (B5, B6 and B7) Assessment	25. The reactivity series 26. Displacement reactions 27. Ionic equations	13. Speed & D-T graphs 14. V-T graphs 15. Terminal velocity 1/2
Feedback 1. Photosynthesis 2. Light intensity	28. Oxidation and reduction 29. Extracting metals using carbon or hydrogen 30. Salts from metals	16. TV 2/2 & Motion exam practice 17. Momentum 18. Conservation of momentum
HALF TERM		
3. The products of photosynthesis & K.C. 4. Testing a leaf for starch	31. Salts from insoluble bases 32. RP - making salts 33. Follow-up	19. Stopping distances a. Revision b. P8 & P9 Test
6. Making the most of photosynthesis 1. Aesthetic Respiration	34. Making more salts 35. Neutralisation 36. Strong and weak acids	c. Feedback 1. Types and properties of waves 2. The sinusoidal equation
3. Exercise 4. Respiration in other organisms 5. Metabolism	37. Principles of electrolysis 38. Electrolysis of lead bromide 39. Electrolysis of aluminium oxide	3. RP1 - Wave speed 4. RP2 - Ripple tank 5. RP3 - Mechanical waves
EASTER HOLIDAY		
Revision Bioenergetics (B8 and B9) Assessment Feedback	40. Changes of the electrodes 41. RP - Electrolysis of aqueous solutions 42. Revision	6. Reflection and refraction 7. The EM spectrum 8. Uses & Hazards of EM waves
1. Homeostasis 2. The nervous system 3. Conscious responses	43. C5 and C6 Test 44. Feedback 45. Fan and endothermic reactions	9. RP - Initiated a. Revision b. P12 & P13 test
4. Reaction times - Required Practical 5. Synapses & K.C. 6. Reflex actions	47. Reaction profiles 48. RP - Energy changes 1 Energy changes 2	c. Feedback Revision
HALF TERM		
Revision	48. RP - Follow-up HSW - Uncertainty 49. Bond Energy calculations	Revision
(no C7 test due to exam)		
Trial Examinations		
1. The endocrine system 2. Control of blood glucose 3. Treating diabetes	1. Rate of reaction 2. Rate at a specific time 3. Collision theory and surface area	1. Magnetic fields 2. Electromagnets 3. The motor effect
4. Distribution and abundance - Required Practical Part 1 5. Distribution and abundance - Required Practical Part 1	4. Effect of temperature 5. Effect of conc. and pressure 6. Effect of catalysts	4. F = BL and exam questions a. Revision b. P15 Test
Exam Feedback	Exam Feedback	Exam Feedback

Bio /3
4. The role of negative feedback & K.C. 5. Hormones and reproduction 6. The menstrual cycle
7. Contraception 8. Infertility treatments Revision
Homeostasis (B10 and 11) Assessment Feedback
2. Cell division in sexual reproduction 3. DNA and the genome
3. More about genetics 4. Inherited disorders 7. Screening for genetic disorders
1. Variation 2. Evolution by natural selection 3. Selective Breeding & K.C.
4. Genetic engineering 5. Ethics 1. Evolution and fossils
2. Extinction 3. Antibiotic resistant bacteria 4. Classification
a. Revision b. B13, 14 & 15 Test Feedback
1. The importance of communities & Organisms in their environment 2. Competition and Adaptations
1. Feeding relationships 2. Cycles 3. Biodiversity and food webs
2. Water pollution 3. Air pollution 4. Global warming and maintaining biodiversity & K.C.