

## Curriculum Map

B is the topic number for biology C is the topic number for chemistry P is the topic number for physics L is the lesson number in this topic e.g. P1 L01 is the first lesson in the first physics topic.

## Year 11 Combined Science

Bio		ology Chen		nistry	Physics		
Date	Week	Lesson 1	Lesson 2	Lesson 1	Lesson 2	Lesson 1	Lesson 2
1-Sep	1	Review of knowledge gaps	B4 Bioenergetics L01 Photosynthesis	Review of knowledge gaps	C4 - Chemical changes L01 Reactions of metals and Reactivity Series	Review of knowledge gaps	Electricity P2 L11 Alternating current and the National Grid
8-Sep	2	Assessment Lesson	L02 Rate of photosynthesis	Autumn Assessment	L02 Displacement reactions	Autumn Assessment	L12 Oscilloscopes
15-Sep	3	LO3 Required practical 6 photosynthesis	L04 How plants use glucose	L03 Oxidation and reduction	L04 Extracting metals	L13 Cables and plugs	L14 Fuses and Earth wire
22-Sep	4	L05 Uses of greenhouses	Missed lesson due to open evening	LO5 Phyto mining and bioleaching	Missed Lesson due to open evening	L15 Electrical power	Missed lessons due to open evening
29-Sep	5	L06 Aerobic respiration	L07 Anaerobic respiration	LO6 Neutralisation of acids			Revision Skills workshop



6-Oct	6	L08 Response to	L09 Metabolism	L08 Strong and weak		P6 Waves	L02 Equations of			
		exercise		acids (HT only)	Required Practical	L01 Nature of Waves	waves			
13-Oct	7	Feedback of AUTUMN exams	L10 Revision of bioenergetics	Review Assessment	L10 Required practical Follow Up	Review Assessment	L03 Sound waves			
20-Oct	8	B5 Homeostasis P2 L05 Hormonal control	L06 Control of blood glucose	C5L04 Bond energy calculations (HT)	C4 L11 Electrolysis of molten compounds	L04 EM spectrum	L05 Infrared and Black body			
	HALF TERM									
3-Nov	9	L07 Treating diabetes	L08 Negative feedback	C4 L12 Electrolysis of aqueous solutions	C4 L14 Representation of reactions at electrodes	L06 Microwaves and Radio waves	L07 UV, X-rays and Gamma			
10-Nov	10	L09 Human reproduction	Revision for mock exams	C4 L15 Electrolysis Required Practical	C4 L15 Extraction of aluminium	P5 Forces L01 Vectors and Scalars	Revision			
17-Nov	11	Mock Exams	Mock Exams	Mock Exams	Mock Exams	Mock Exams	Mock Exams			
24-Nov	12	Mock Exams	Mock Exams	Mock Exams	Mock Exams	Mock Exams	Mock Exams			
8-Dec	13	L10 The menstrual cycle	L11 Contraception	C3 Quantitative Chemistry (HT ONLY) L07 Moles and Avogadro's Constant	L08 Reacting Masses	LO2 Scale drawings and protractor skills	L03 Forces between objects - Newtons 3rd law			
15-Dec	14	L12 Infertility treatments	B6 Inheritance and Variation L01 Types of reproduction in organisms	L09 Limiting reactants	L10 Moles exam practice	L04 Forces between objects - Newtons first law	LO5 Parallelogram of forces			
22-Dec	15	Feedback of mock exams	Feedback of mock exams	Feedback of mock exams	Feedback of mock exams	Feedback of mock exams	Feedback of mock exams			



				END OF TERM					
5-Jan	16	L02 Meiosis	LO3 DNA and genome	C6 - Rate and extent of chemical change L01 Calculating rate of reaction	L02 Collision theory and Factors	L06 Resolving forces	L07 Centre of Mass		
12-Jan	17	L04 Sex determination and family trees	L05 Inheritance and punnet squares	LO3 Factors affecting the rate of reactions and catalysts	LO4 Rates of reaction Required Practical 1	L08 Distance, time, speed	L09 Distance-time graphs		
19-Jan	18	L06 Inherited disorders and Genetic screening	L07 Variation and Natural Selection	L05 Rates of reaction Required Practical 2	L06 RP exam practice	L10 Velocity-time graphs	L11 Acceleration		
26-Jan	19	L08 Selective Breeding	L09 Genetic engineering and ethics	L07 Reversible reaction and equilibrium	L08 The effects of changing conditions on equilibrium (Le Chatelier's principle)	L12 Analysing motion graphs	L13 Forces and Elasticity		
2-Feb	20	L10 Evidence for evolution, fossils and extinction	L11 Antibiotic resistant bacteria	L11 The effects of changing conditions on equilibrium Exam Practice	Revision	L14 Force = mass x acceleration	L15 Acceleration required practical		
9-Feb	21	Revision	Revision	Revision	Revision	Revision	Revision		
HALF TERM									
23-Feb	22	Mock Exams	Mock Exams	Mock Exams	Mock Exams	Mock Exams	Mock Exams		
2-Mar	23	Mock Exams	Mock Exams	Mock Exams	Mock Exams	Mock Exams	Mock Exams		
9-Mar	24	L12 Classification	L13 The three domains	Revision	Revision	L16 Weight and terminal velocity	L17 Forces and braking		



16-Mar	25	Revision	Revision	Revision	Revision	L18 Momentum and conservation of momentum	P7 Electromagnetism L01 Magnetic fields		
23-Mar	26	Mock Exam Feedback	Mock Exam Feedback						
				END OF TERM					
13-Apr	27	Revision	Revision	Revision	Revision	L02 Magnetic fields of current and electromagnets	L03 Motor effect		
20-Apr	28	Revision	Revision	Revision	Revision	Revision	Revision		
27-Apr	29	Revision	Revision	Revision	Revision	Revision	Revision		
4-May	30	Revision	Revision	Revision	Revision	Revision	Revision		
11-May	31	Revision	Revision	Revision	Revision	Revision	Revision		
18-May	32	Revision	Revision	Revision	Revision	Revision	Revision		
	Half Term								