

Year 12 Biology								
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
Term 1a	Biological molecules				Enzymes			
	Cells and cell structure		Transport in and out of cells			DNA, genes and chromosomes		
Half term								
Term 1b	Enzymes		Genetic diversity, species and taxonomy		Biodiversity within the community		Revision	
	Protein synthesis		Gas exchange of O ₂			Variation	Revision	
Winter break								
Term 2a	Digestion and absorption		Circulatory system					
	Cause of disease	Human diseases	Defence mechanisms					
Half term								
Term 2b	Cell division			Revision				
	Mass transport in plants			Revision				
Spring break								
Term 3	Revision							
	Revision							

Year 13 Biology								
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
Term 1a	Populations				Respiration			
	Energy and ecosystems				Nutrient cycles			
Half term								
Term 1b	Respiration	Inheritance and evolution				Revision		
	Photosynthesis				Revision			
Winter break								
Term 2a	Response to stimuli				Skeletal muscles as effectors	Recombinant DNA technology		
	Control systems in plants	Homeostasis and negative feedback			Control of transcription and translation			
Half term								
Term 2b	Recombinant DNA technology		Revision					
	Control of transcription and translation		Revision					
Spring break								
Term 3	Revision							
	Revision							

Year 12 Chemistry									
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	
Term 1a	Atomic structure		Amount of substance				Bonding		
	Kinetics		Equilibria			Oxidation and reduction			
Half term									
Term 1b	Bonding		Energetics			Revision			
	Oxidation and reduction	Periodicity		Group 2		Group 7			
Winter break									
Term 2a	Intro to organic chemistry		Mechanisms of alkanes		Mechanisms of haloalkanes				
	Theory of alkanes		Mechanisms of haloalkanes		Theory of alkenes				
Half term									
Term 2b	Mechanisms of alkenes			Mechanisms of alcohol					
	Theory of alcohols		Organic analysis						
Spring break									
Term 3	Revision								
	Revision								

Year 13 Chemistry								
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
Term 1a	Acids and bases				Thermodynamics			
	Electropotentials			Kinetics		Periodicity		
Half term								
Term 1b	Kp		Transition metals		Reaction of inorganic compounds			
	Periodicity	Transition metals			Reaction of inorganic compounds		Revision	
Winter break								
Term 2a	Nomenclature		Aromatic chemistry			Amines		
	Carbon R groups			Polymerisation		Amino acids and proteins		
Half term								
Term 2b	Amines		Structure determination					
	Amino acids and proteins		Chromatography	Organic synthesis				
Spring break								
Term 3	Revision							
	Revision							

Year 12 Physics								
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
Term 1a	SI units and prefixes	Scalars and vectors	Moments	Motion along a straight line	Projectile motion	Newtons law of motion	Momentum	
Half term								
Term 1b	Work, energy and power	Conservation of energy	Bulk properties of solids	Youngs modulus	Constituents of the atom	Elementary particles	Radioactivity	
Winter break								
Term 2a	Basics of electricity	Resistivity and potential dividers	Electromotive force	Oscillating systems	SHM	SHM Required practical		
Half term								
Term 2b	Forced vibrations and resonance	Longitudinal and transverse waves	Principles of superposition	Interference and youngs slit practical	Diffraction and refraction			
Spring break								
Term 3	Collisions of electrons with atoms	Photoelectric effect	Revision					

Year 13 Physics								
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
Term 1a	Circular and periodic motion	Simple harmonic motion	Newtons law of gravitation	Grav. Potentials and orbits	Coulombs law and electric field strength	Electric potential	Capacitors	
Half term								
Term 1b	Exponential changes in radioactivity	Magnetic flux density	Moving charges in a magnetic field	Electromagnetic induction	AC and transformers	Transformer practical	Conduction and Boyles law	
Winter break								
Term 2a	Kinetic theory of gases	Radius of the nucleus	Mass and energy and induced fission	Safety aspects and nuclear fusion	Rotational motion	Wind energy		
Half term								
Term 2b	Intensity of light	Revision						
Spring break								
Term 3	Revision							