

	BIOLOGY		CHEMISTRY		PHYSICS	
w/c	<i>Lesson & links to other areas of the course</i>	<i>Additional resources e.g. website links & videos</i>	<i>Lesson & links to other areas of the course</i>	<i>Additional resources e.g. website links & videos</i>	<i>Lesson & links to other areas of the course</i>	<i>Additional resources e.g. website links & videos</i>
28-Feb	MOCKS					
07-Mar						
14-Mar	MOCK FEEDBACK					
21-Mar	Levels of Organisation/Required Practical 7/	Video - Cells, tissues, organs & organ systems	Chemical Analysis: Purity, formulations and chromatography.	Video - Purity & formulations	Motion-graphs, rearranging equations	Video - Distance-Time Graphs
		Video Required practical 7 'reaction time'		Video - Purity & formulations		Video - Velocity Time Graphs
		Exam question				
	How Materials are Cycled / biodiversity / waste management	Video - How Materials are Cycled	Chemical Analysis: Required Practical: Chromatography.	Video - Chromatography	Newton's Laws	Video - Newton's First & Second Law
Video - Biodiversity		Video - Required practical 'Chromatography'		Video - Newton's Third Law		
Video - Waste Management		Video - Required practical 'Chromatography'				
Exam question						
28-Mar	Global warming / maintaining biodiversity	Video - Global Warming	Atmosphere: The composition and evolution of the Earth's atmosphere.	Video - How Has the Atmosphere Changed	Momentum	Video - conservation of momentum part 1
				Video - Evolution of the Atmosphere		Video - conservation of momentum part 2
		Exam question		Quiz - The Evolution of Earth's Atmosphere		

	Cell Division — Chromosomes / Mitosis & Cell Cycle	Video - Cell cycles, chromosomes & mitosis	Atmosphere: Climate Change and Pollution	Video - The Greenhouse Effect	EM waves and IR required practical	Video - Electromagnetic Waves
		Video - Cell division by Mitosis		Video - Climate Change		Video - Radio Waves
		Exam question		Quiz - Greenhouse Effect		Video - Microwaves and Infrared
						Video - required practical 'Infra-Red Absorption & Emission'
04-Apr	Stem Cells	Video - Stem Cells	Using Earth's Resources: Obtaining potable water.	Video - Potable Water	Electromagnetism	Video - Electromagnetism
		Exam question		Video - How Does Water Treatment Work		
	Human Digestive System (including enzymes)	Video - Digestive System		Using Earth's Resources: Metals		
		Video - The Digestive System				
		Video - Digestive Enzymes	Quiz - Alternative to metal extraction			
		Video - Digestive Enzymes				
Video - How Enzymes Work						
Exam question		Video - How the Electric Motor Works				
11-Apr	EASTER					
18/04/2022 (Thurs & Fri only)	Movement of particles/Required practical - osmosis	Video - Required Practical 'Effects of Osmosis on Plant Tissue'	Atomic Structure	Video - What Is an Atom	Weight, gravity, terminal velocity	Video - Gravity, Weight and GPE
		Exam question		Video - History of the Atom		
Required practical - Food tests	Video - Required Practical 'Food Tests'	Video - Atomic Number and Mass Number				
		Video - Electron Arrangement				
		Quiz - Atoms and Elements				

		Exam question		Quiz - History of the Atom		
				Quiz - Atomic Structure		
25-Apr	Heart & blood vessels	Video - The Heart and Circulation	Periodic Table	Video - Modern Periodic Table	Energy stores, transfers, and changes,	Video - Energy Stores, Transferring Energy & Work Done
		Video - Arteries, Veins and Capillaries		Video - Explaining Reactivity Trends		
				Video - Group 1 Alkali Metals		
				Video - Group 7 - The Halogens		
				Video - Group 0 - Noble Gases		
		Video - The Blood		Quiz - History of the Periodic Table		
				Quiz - Periodic Table and Reactivity		
				Quiz - Alkali Metals		
				Quiz - Group 7 - The Halogens		
		Video - The Heart		Quiz - Noble Gases		
		Bonding. How bonding and structure are related to properties and substances.	Video - Formation of Ions	Required practical - specific heat capacity, calculations, analyse & power	Video - Internal Energy and Specific Heat Capacity	
			Video - Ionic bonding			
	Video - Blood Vessels		Video - Giant Ionic Structures properties			
			Video - Covalent Bonding			
			Video - Properties of Simple Molecular Substances & Giant Covalent Structures			
			Video - Allotropes - Graphene and Fullerenes			
			Video - Metallic Bonding			
			Quiz - Forming Ions			
	Video - What Is Blood Made of?		Quiz - Ionic Bonding			
			Quiz - Properties of ionic compounds			
	Quiz - Covalent Bonding					
	Quiz - Giant Covalent Structures					
	Quiz - Fullerenes and Graphene					
	Quiz - Metallic Bonding					
	Exam question					

02-May	CHD — Non-Communicable Disease /Health Issues / Effect of Lifestyle on Non-Communicable Disease	Video - Cardiovascular Diseases	Quantitative Analysis. Use of amount of substance in relation to masses of pure substances.	Video - Using Moles to Balance Equations	Required practical - IV components & explanation	Video - V = IR Equation & Current/Potential Difference Graphs	
		Video - non-communicable diseases		Video - How to Calculate Concentration			
		Video - Lifestyle and Disease		Quiz - Relative formula mass practice			
		Exam question		Quiz - Mole Calculations			
	Cancer	Video - Cancer	Chemical Changes: Reactivity of Metals	Quiz - Moles and Mole Conversions			
		Video - Cancer		Quiz - Concentration			
Exam question		Video - Reactivity Series of Metals & Displacement Reactions					
			Video - Displacement Reactions & Reactions in Solutions				
			Video - Extraction of metals & reduction			Video - Required practical 'Testing Components (I-V Characteristics)'	
			Quiz - Reactivity Series				
09-May	Photosynthesis — Overview	Video - Photosynthesis	Chemical Changes: Reactions of acids	Video - Acids Reacting with Metals	Radioactivity-atom	Video - Atomic Structure, Isotopes & Electrons Shells	
		Video - Photosynthesis		Video - Neutralisation			
		Exam question		Video - The pH Scale & Strong vs Weak Acids			
		Quiz - Metals and acids					
		Quiz - Acids and Bases(alkali)					
	Rate of Photosynthesis / Required Practical 5	Video - Factors Affecting the Rate of Photosynthesis	Chemical Changes: Required Practical: Preparing a salt	Quiz - Strong and Weak Acids	Radioactivity-decay equations, half-life etc	Video - Alpha, Beta and Gamma Radiation	
		Video - Required Practical 6: Photosynthesis"		Video - Three Reactions of Acids			
		Exam question		Video - Required practical 'Making Salts'			
				Quiz - Acids & bases			Video - Radioactive Decay and Half Life
				Quiz - Making Copper Sulphate prac			
16-May	EXAM START						

	Biology Paper 1 - 17th May AM	Electrolysis/required practical 'electrolysis of aqueous solutions'	Video - Required practical 'Electrolysis'	Continue with Paper 1 revision
	Go back to Paper 2 revision	Energy Changes/required practical 'temperature changes'	Quiz - Electrolysis of Copper Sulphate	
			Video - Exothermic and Endothermic Reactions	
			Video - Bond Energies	
			Video - Required practical 'Temperature Changes'	
			Quiz - Energy Changes	
23-May	Paper 2 revision	Chemistry Paper 1 - 27th May AM		
30-May	HALF TERM			
	Paper 2 revision	Go back to paper 2 revision		Physics paper 1 - 9th June PM
		Rates of Reaction/required practical	Video - Rates of Reaction	Go back to paper 2 revision
			Video - Factors Affecting the Rate of Reaction	
			Video - Required practical 'disappearing cross'	
			Video - required practical 'collecting Gas'	
			Video - Required Practical 'Rates of Reaction'	
			Quiz - Rate of Reaction	
			Quiz - required practical	
		Reversible reactions & dynamic equilibrium	Video - Reversible Reactions and Equilibrium	
	Quiz - Dynamic equilibrium			
13-Jun	Biology Paper 2 - 15th June AM		Video - Hydrocarbons & Alkanes	Paper 2 revision

		Crude oil; distillation & cracking	Video - Crude Oil and Fractional Distillation	
			Quiz - Hydrocarbons	
			Video - Alkanes: properties & combustion	
			Video - Combustion and Fractional Distillation	
			Video - Cracking Crude Oil & Alkenes	
			Quiz - Uses of Crude Oil	
			Quiz - Cracking Crude Oil	
20-Jun				