

	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	Hormonal control in humans	Video - The Endocrine System	Chemical Analysis: Purity, formulations and chromatography.			Video - The difference between Speed and Velocity & Distance and Displacement	
		Video - Control of Blood Glucose Concentration				Video - Purity & formulations	
		Video - Control of Blood Glucose Concentration					
		Video - Hormones in human reproduction					Video - Acceleration
		Seneca questions - Endocrine system					
		Seneca questions - Blood glucose				Video - Purity & formulations	
		Seneca questions - hormones in reproduction					
		Exam questions					Video - How to Draw a Graph
	Adaptations, interdependence and competition	Video - Competition and Interdependence	Chemical Analysis: Required Practical: Chromatography.	Video - Chromatography		Video - Distance-Time Graphs	
Video - Interdependence - Community and Competition		Video - Required practical 'Chromatography'		Video - Velocity Time Graphs			

		Seneca questions - Communities		Video - Required practical 'Chromatography'		
28-Mar	Abiotic Factors/ biotic factors	Video - Biotic and Abiotic Factors	Atmosphere: The composition and evolution of the Earth's atmosphere.	Video - How Has The Atmosphere Changed	EM waves and IR required practical	Video - Electromagnetic Waves
				Video - Evolution of the Atmosphere		Video - Radio Waves
				Quiz - The Evolution of Earth's Atmosphere		Video - Microwaves and Infrared
		Seneca questions - Communities		-		Video - required practical 'Infra-Red Absorption & Emission'
Levels of organisation	Video - Cells, tissues, organs & organ systems	Atmosphere: Climate Change and Pollution	Video - The Greenhouse Effect	Magnets & electromagnets	Video - Magnets and magnetic field lines	
	Video - Levels of organisation		Video - Climate Change			
	Seneca questions - cells & tissues		Video - Pollutants from Fuels			
	Exam question		Quiz - Greenhouse Effect			
			Quiz - Air Pollution			
04-Apr	Required practical - reaction time &How Materials are Cycled	Video - Required practical 'reaction time'	Using Earth's Resources: Obtaining potable water.		Energy stores, transfers, and changes,	Video - Energy Stores, Transferring Energy & Work Done
		Required practical activity 7 information				
		Seneca questions - reflexes				
		Video - The Carbon Cycle				
		Video - The Water Cycle				
Seneca questions - cycling of materials		Video - How Does Water Treatment Work				
	Exam question		Quiz - Potable Water			
	Required practical - Microscopes	Video - Required Practical 'Microscopes' Seneca questions - Microscopy	Sustainability: Life Cycle Assessment and Reduce, Reuse, Recycle.	Quiz - Using resources	Required practical - specific heat capacity, calculations, analyse & power	Video - Internal Energy and Specific Heat Capacity

		Seneca questions - Microscopy				
11-Apr	EASTER					
18/04/2022 (Thurs & Fri only)	Cell Division - Chromosomes/Mitosis & Cell Cycle/Stem Cells	Video - Cell cycles, chromosomes & mitosis Video - Cell division by Mitosis Seneca questions - Chromosomes & mitosis Exam question Video - Stem Cells Seneca questions - stem cells Exam question -	Atomic Structure	Video - What Is An Atom Video - History of the Atom Video - Atomic Number and Mass Number Video - Electron Arrangement Quiz - Atoms and Elements Quiz - History of the Atom Quiz - Atomic Structure Quiz - Electronic structure	National grid and global energy resources	Video - National Grid
25-Apr	Human Digestive System (including enzymes)	Video - Digestive System Video - The Digestive System Video - Digestive Enzymes Video - Digestive Enzymes Video - Absorption in the Small Intestine Video - How Enzymes Work Video - Factors that Affect Enzymes Video - Effect of Temperature and pH on Enzymes	Periodic Table	Video - Modern Periodic Table Video - Explaining Reactivity Trends Video - Group 1 Alkali Metals Video - Group 7 - The Halogens Video - Group 0 - Noble Gases Quiz - History of the Periodic Table Quiz - Periodic Table and Reactivity Quiz - Alkali Metals	Electric basics- symbols, current flow, etc	Video - electrical components

		Seneca questions - enzymes Seneca questions - digestive enzymes Seneca questions - digestive enzymes Exam question -		Quiz - Group 7 - The Halogens Quiz - Noble Gases - -		
	Heart & blood vessels	Video - The Heart and Circulation Video - Arteries, Veins and Capillaries Video - The Blood Video - The Heart Video - Blood Vessels Video - What Is Blood Made of? Seneca questions - The heart Seneca questions - blood vessels Seneca questions - blood Exam question -	Bonding. How bonding and structure are related to properties and substances.	Video - Formation of Ions Video - Ionic bonding Video - Giant Ionic Structures properties Video - Covalent Bonding Video - Properties of Simple Molecular Substances & Giant Covalent Structures Video - Metallic Bonding Quiz - Forming Ions Quiz - Ionic Bonding Quiz - Properties of ionic compounds Quiz - Covalent Bonding Quiz - Metallic Bonding	Electrical calculations V=IR, Q=It, E=VQ	Video - V = IR Equation & Current/Potential Difference Graphs
02-May	Communicable diseases - viral, bacterial, protist, fungal	Video - Pathogens# Video - Measles and HIV Video - Salmonella and Gonorrhoea Video - Malaria Video - Virus and examples of viral diseases	Bonding, structure & properties of carbon-based compounds	 Video - Allotropes - Graphene and Fullerenes Quiz - Giant Covalent Structures	Resistors/Required practical - IV characteristics	Video - Required practical 'Testing Components (I-V Characteristics)'

		Video - Bacterial Diseases & Treatment and Prevention Seneca questions - communicable diseases Seneca questions - type of pathogen Seneca questions - type of pathogen Exam question		Quiz - Fullerenes and Graphene		
	CHD — Non-Communicable Disease /Health Issues / Effect of Lifestyle on Non-Communicable Disease	Video - Cardiovascular Diseases Video - non-communicable diseases Video - Lifestyle and Disease Exam question	Quantitative Analysis. Use of amount of substance in relation to masses of pure substances.	Video - Using Moles to Balance Equations Video - How to Calculate Concentration Quiz - Relative formula mass practice Quiz - Mole Calculations Quiz - Moles and Mole Conversions Quiz - Concentration	Required practical - IV components & explanation	Video - V = IR Equation & Current/Potential Difference Graphs
	Cancer	Video - Cancer Video - Cancer Exam question	Chemical Changes: Reactivity of Metals	Video - Reactivity Series of Metals & Displacement Reactions Video - Displacement Reactions & Reactions in Solutions Video - Extraction of metals & reduction Quiz - Reactivity Series Quiz - Displacement Reactions Quiz - Extraction of Metals		Video - Required practical 'Testing Components (I-V Characteristics)'
09-May	Photosynthesis — Overview	Video - Photosynthesis	Chemical Changes: Reactions of acids	Video - Acids Reacting with Metals Video - Neutralisation	Radioactivity- atom	Video - Atomic Structure, Isotopes & Electrons Shells

		Video - Photosynthesis		Video - The pH Scale & Strong vs Weak Acids		
		Exam question		Quiz - Metals and acids		Video - Alpha, Beta and Gamma Radiation
	Rate of Photosynthesis / Required Practical 5	Video - Factors Affecting the Rate of Photosynthesis	Chemical Changes: Required Practical: Preparing a salt	Video - Three Reactions of Acids	Radioactivity- decay equations, half-life etc	Video - Radioactive Decay and Half Life
		Video - Required Practical 6: Photosynthesis"		Video - Required practical 'Making Salts'		
		Exam question		Quiz - Acids & bases		
				Quiz - Making Copper Sulphate prac		
	EXAM START					
16-May	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					
06-Jun	Paper 2 revision		Go back to paper 2 revision		Physics paper 1 - 9th June PM	
				Video - Rates of Reaction	Go back to paper 2 revision	

		<p>Rates of Reaction/required practical</p> <p>Video - Factors Affecting the Rate of Reaction</p> <p>Video - Required practical 'disappearing cross'</p> <p>Video - required practical 'collecting Gas'</p> <p>Video - Required Practical 'Rates of Reaction'</p> <p>Quiz - Rate of Reaction</p> <p>Quiz - required practical</p>	
		<p>Reversible reactions & dynamic equilibrium</p> <p>Video - Reversible Reactions and Equilibrium</p> <p>Quiz - Dynamic equilibrium</p>	
13-Jun	<p>Biology Paper 2 - 15th June AM</p>	<p>Crude oil; distillation & cracking</p> <p>Video - Hydrocarbons & Alkanes</p> <p>Video - Crude Oil and Fractional Distillation</p> <p>Quiz - Hydrocarbons</p> <p>Video - Alkanes: properties & combustion</p> <p>Video - Combustion and Fractional Distillation</p> <p>Video - Cracking Crude Oil & Alkenes</p> <p>Quiz - Uses of Crude Oil</p> <p>Quiz - Cracking Crude Oil</p>	<p>Paper 2 revision</p>
20-Jun		<p>Chemistry Paper 2 - 20th June AM</p>	<p>Physics Paper 2 - 23rd June AM</p>