Year: 11

Subject: Science



Intent	Implementation	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Clarity	Theme / topic	Genetics Electrochemistry	•Homeostasis and	Sustainability Accoloration	Advanced Ecology Organic Chamistry	GCSE Exam Season	GCSE Exam Season
arounu knowladza		• Electrochemistry	Response Response	• Acceleration	• Organic Chemistry		
KIIOWIEuge		Home					
		nome	• Flectromagnetism				
			Liceromagnetism				
predators	Key substantive	Genetics	Homeostasis and	Sustainability	Advanced Ecology		
	knowledge	 The genome as the 	Response	 How materials are 	 How materials 		
		entire genetic	 Coordination and 	cycled.	cycle through abiotic		
		material of an	control.	 Biodiversity. 	and biotic		
		organism.	 Principles of 	 Waste 	components of		
		 Single gene 	hormonal	management / land	ecosystems.		
		inheritance and	coordination and	use.	•The role of		
		single gene crosses	control in humans.	 Global Warming. 	microorganisms		
		with dominant and	 Hormones in 		(decomposers) in		
		recessive	human	Acceleration	the cycling of		
		phenotypes.	reproduction,	 Estimating 	materials through an		
		 Sex determination 	hormonal and non-	accelerations in	ecosystem.		
		in humans.	hormonal methods	everyday contexts.	 Organisms are 		
		 The process and 	of contraception.	 Interpreting 	interdependent.		
		evidence for	 Homeostasis 	quantitatively graphs			
		evolution.		of distance, time,			
		 The uses of 	Rates and	and speed.	Organic Chemistry		
		modern	<u>Equilibrium</u>	 Acceleration 	Carbon		
		biotechnology and	 Factors that 	caused by forces.	compounds, both as		
		selective breeding.	influence the rate of		fuels and feedstock,		
			reaction: varying		and the competing		
		Electrochemistry	temperature or		demands for limited		
		 Electrolysis of 	concentration,		resources.		
		molten ionic liquids	changing the surface		 Fractional 		
			area of a solid		distillation of crude		

	and aqueous ionic	reactant or by		oil and cracking to	
	solutions.	adding a catalyst.		make more useful	
	 Reduction and 	 Factors affecting 		materials.	
	oxidation in terms of	reversible reactions.			
	loss or gain of				
	oxygen.	Waves			
	Balanced chemical	• Amplitude			
		wavelength			
	equations, ionic	frequency relating			
	symbols	velocity to frequency			
	• Identification of	and wavelength			
		• Transverse and			
	common gases.				
	El a studialita da alta a	iongitudinai waves.			
	Electricity in the	Electromagnetic			
	nome	waves, velocity in			
	Direct and	vacuum; waves			
	alternating potential	transferring energy;			
	difference.	wavelengths and			
	 Main's electricity. 	frequencies from			
	•Power.	radio to gamma-			
	 Efficiency. 	rays.			
		Electromagnetism			
		 Magnetic effects of 			
		currents, how			
		solenoids enhance			
		the effect.			
		 How transformers 			
		are used in the			
		national grid and the			
		reasons for their			
Dissiplinger		a The development		The development	
Usciplinary	Ine development	• The development	The development	• The development	
knowledge	ot scientific thinking	ot scientific thinking	of scientific thinking	of scientific thinking	
	 Experimental skills 	 Experimental skills 	 Experimental skills 	•Experimental skills	
	and strategies	and strategies	and strategies	and strategies	
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Clarity around sequencingMain links across the curriculumGenetics: v7 Reproduction v7 Reproduction v9 Further chemical reactions.Homeostasis & v9 Further chemical reactions.Sustainability v9 Further chemical reactions.Advanced Ecology v7 Cells and v7 Cere Chemistry v7 EcologyAdvanced Ecology v7 Ecology <b< th=""><th></th><th></th><th> Analysis and </th><th> Analysis and </th><th> Analysis and </th><th> Analysis and </th><th></th></b<>			 Analysis and 	 Analysis and 	 Analysis and 	 Analysis and 	
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sequencing curriculum •Y8 Plant Biology •Y7 Cells and •Y7 Ecology •Y8 classification variation in. organisation. •Y10 Transport and Biomechanics. and Biomechanics. systems. •Y10 The Nervous Systems. •Y10 Bioenergetics. •Y10 Bioenergetics. v78 Physical changes and chemical reactions. •Y10 The Nervous System. •Y10 Bioenergetics. •Y10 Bioenergetics. v19 Further chemical reactions. Rates and •Y9 Forces and •Y8 Physical •Y8 Physical v10 Bonding, *Y8 Physical changes *Y8 Physical changes •Y10 Bioenergetics. •Y10 Bioenergetics. v10 Bonding, *Y8 Physical changes •Y10 Forces in Chemical reactions •Y10 Forces in v10 Bonding, *Y8 Physical changes *Y10 Acids & Bases •Y10 Acids and Y10 Acids and property of matter *Y10 Acids & Bases •Y10 Acids & Bases •Y10 Acids and Bases. v10 Electricity and Electrochemistry *Y11 Electrochemistry *Y11 reactions *Y10 Acids & Bases *Y10 Acids & Bases •Y10 Acids and v110 Electrical Forter *Y11 Forter For	around	across the	 Y7 Reproduction 	Response:	<u>Sustainability</u>	 Y7 Ecology 	
•Y9 Inheritance and variation in.Organisation. •Y10 Transport Systems.•Y8 Classification and Biomechanics. •Y10 Bioenergetics.and Biomechanics. •Y10 Bioenergetics.•Y10 Transport Systems.•Y10 The Nervous•Y10 Bioenergetics.•Y10 Bioenergetics.•Y10 Bioenergetics.•Y8 Physical changes and chemical reactions.•Y10 The Nervous•Y10 Forces.•Y10 Forces.•Y10 Core Chemistry•Y9 Further chemical reactions•Y10 Core Chemistry •Y7 Core Chemistry•Y10 Forces in •Y10 Forces inChanges and Changes andChemical reactions.•Y11 Rates of reaction.•Y8 Physical changes •Y10 Forces•Y10 Forces in •Y10 Forces inChemical reactions.•Y11 Rates of reaction.•Y9 Further chemical reactions•Y10 Forces •Y10 Acids & Bases•Y10 Acids and Bases.•Y10 Electricity in the home: •Y10 Electrical Cricuits.•Y11Electrochemistry •Y10 Electrical •Y10 Electrical	sequencing	curriculum	 Y8 Plant Biology 	 Y7 Cells and 	 Y7 Ecology 	 Y8 classification 	
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•Y8 Physical changes and chemical reactions. System. Acceleration •Y7 Forces. •Y7 Core Chemistry •Y7 Core Chemistry •Y9 Forces and Motion •Y8 Physical Changes and Chemical reactions. •Y9 Further chemical reactions •Y0 Core Chemistry •Y10 Bonding, •Y10 Bonding, •Y10 Bonding, •Y8 Physical changes & Chemical reactions. •Y9 Forces and Motion •Y8 Physical Changes and •Y10 Forces in •Y10 Bonding, •Y10 Rates of reaction. •Y8 Physical changes & Chemical reactions. •Y9 Further Chemical Reactions •Y9 Further •Y11 Rates of reaction. •Y9 Further chemical reactions •Y10 Acids & Bases. •Y10 Acids and Bases. Bases. Electricity in the home: •Y8 Electricity and Electronemests. •Y10 Energy Changes. •Y11 Electrochemistry •Y10 Electrical Circuits. •Y11 Electrochemistry •Y10 Electrical Electrochemistry •Y11 Electrochemistry •Y10 Electrical Circuits. •Y11 Electrochemistry •Y8 Waves (light &			Electrochemistry:	•Y10 The Nervous			
 and chemical reactions. •Y9 Further chemical reactions •Y10 Electricial reactions •Y2 Forces. •Y2 Forces. •Y3 Physical Page bases •Y3 Physical Motion •Y3 Physical Changes and •Y10 Forces in •Y10 Acids and •Y10 Acids & Bases •Y10 Acids & Bases •Y10 Acids & Bases •Y10 Forces •Y10 Forces •Y10 Forces in •Y10 Forces in •Y10 Forces in •Y10 Acids & Bases •Y10 Acids & Bases •Y10 Forces •Y10 Forces			•Y8 Physical changes	System.	Acceleration	Organic Chemistry	
reactions. Rates and •Y9 Forces and •Y8 Physical ·Y9 Further chemical reactions •Y7 Core Chemistry •Y10 Forces in ·Y10 Bonding, •Y8 Physical changes •Y10 Forces in Chemical reactions. ·Y10 Bonding, •Y8 Physical changes •Y10 Forces in Chemical reactions. ·Y11 Rates of reactions •Y9 Further chemical Chemical Reactions ·Y10 Acids and •Y10 Acids & Bases •Y10 Acids and Bases. ·Y10 Electricity in the •Y10 Forces •Y10 Forces Hotion ·Y10 Electricity and •Y10 Forces -Y10 Acids and Bases. ·Y10 Electricity and •Y10 Forces -Y10 Forces -Y10 Acids and ·Y10 Acids & Bases ·Y10 Forces -Y10 Forces -Y10 Forces ·Y10 Acids & Bases ·Y10 Forces -Y10 Forces -Y10 Forces ·Y10 Electricity and ·Y10 Forces -Y10 Forces -Y10 Forces ·Y10 Electricity -Y11 Electrochemistry -Y10 Forces -Y10 Forces ·Y10 Electricity -Y11 Electrochemistry -Y11 -Y11 Flectricity -Y11 -Y11			and chemical		•Y7 Forces.	•Y7 Core Chemistry	
•Y9 Further chemical reactions Equilibrium •Y7 Core Chemistry •Y10 Bonding, structure and property of matter •Y11 Rates of reactions. •Y8 Physical changes •Y8 Physical changes structure and property of matter •Y11 Rates of reactions. •Y8 Physical changes •Y9 Further Chemical Reactions •Y11 Rates of reaction. •Y9 Further chemical reactions •Y10 Acids & Bases •Y10 Acids & Bases •Y10 Acids & Bases Electricity in the home: •Y10 Energy •Y10 Electricial Circuits. •Y11 Waves •Y8 Waves (light & *Y8 Waves (light &			reactions.	Rates and	 Y9 Forces and 	•Y8 Physical	
reactions•Y7 Core Chemistry •Y10 Bonding, structure and property of matter •Y11 Rates of reaction.•Y10 Forces in ActionChemical reactions. •Y9 Further Chemical Reactions •Y10 Acids and Bases.Electricity in the home: •Y8 Electricity and Electrocal Circuits.•Y10 Acids & Bases •Y10 Electrical Changes.•Y10 Electricity and •Y11•Y11Electrocitical Circuits.•Y10•Y11Electrocitical Circuits.•Y11•Y10 Electrical Circuits.•Y11•Y10 Electrical Circuits.•Y11•Y10 Electrical Circuits.•Y11•Y10 Electrical Circuits.•Y11•Y10 Electrical Circuits.•Y11•Y10 Electrical Circuits.•Y11•Y1			•Y9 Further chemical	<u>Equilibrium</u>	Motion	Changes and	
•Y10 Bonding, structure and property of matter •Y11 Rates of reaction.•Y8 Physical changes & Chemical reactions.•Y9 Further Chemical Reactions •Y10 Acids and Bases.•Y11 Rates of reaction.•Y9 Further chemical reactions •Y10 Acids & Bases•Y10 Acids & Bases•V10 Acids & Bases •Y10 Acids & Bases.•Y10 Energy Changes.Bases.•Y8 Electricity and Electromagnets. •Y10 Electrical Circuits.•Y11 Electrochemistry •Y8 Waves (light & •Y8 Waves (light &			reactions	•Y7 Core Chemistry	•Y10 Forces in	Chemical reactions.	
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•Y11 Rates of reaction. •Y9 Further chemical reactions Bases. •Y10 Acids & Bases •Y10 Acids & Bases Electricity in the home: •Y10 Energy •Y8 Electricity and Electrochemistry •Y11 Electrochemistry •Y10 Electrical Circuits. Waves •Y8 Waves (light &			property of matter	reactions.		 Y10 Acids and 	
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•Y8 Electricity and Electromagnets. •Y10 Electrical Circuits. •Y11 Electrochemistry •Y10 Electrical Circuits. •Waves •Y8 Waves (light &			home:	Changes.			
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•Y8 Waves (light &			Circuits.	Waves			
				•Y8 Waves (light &			
Sound)				Sound)			
•Y10 Energy				•Y10 Energy			
Transfer				Transfer			
•Radioactivity.				Radioactivity.			
Electromagnetism				Electromagnetism			

			 Y8 Electricity and Electromagnets. Y10 Electrical 			
			Circuits.			
			•Y11 Electricity in			
			the home.			
	Authentic cross	Electrochemistry	Waves	<u>Sustainability</u>	Advanced Ecology	
	curricular links	Maths	Maths	Geography	Geography	
		Electricity in the		Acceleration		
		<u>nome</u> Maths		WIDENS		
		WIGEIIS				
Vocabulary	Key words	Genetics:	Homeostasis and	Sustainability	Advanced Ecology	
		DNA, genotype,	<u>Response</u>	Biodiversity,	Ecosystem,	
		phenotype, haploid,	Homeostasis,	community,	interdependence,	
		diploid, inheritance,	automatic control,	photosynthesis	community, abiotic,	
		gamete, genome,	thermoregulatory		biotic, environment,	
		variation.	centre, endocrine	Acceleration	adaptations,	
			system, dialysis,	Resolving force,	structural,	
		Electrochemistry	negative feedback,	Newton's second	behavioural,	
		Cathode, anode,	menstrual cycle,	law, velocity, inertial	photosynthetic	
		electrolysis, molten,	phototropism,	mass, conservation	organism	
		aqueous, nam	gravitropism, auxins,	or momentum;		
			borticulturo	acceleration	Organic Chemistry	
		Electricity in the	norticulture.		Hydrocarbon.	
		home	Rates and		saturated, fractional	
		Direct current,	equilibrium		distillation, cracking;	
		alternating current,	Catalyst.		homologous series	
		transformer, power,	equilibrium,		_	
		efficiency.	activation energy,			
			collision theory,			

			reversible reaction, rate of reaction.				
			<u>Waves</u> Transverse, longitudinal, frequency, time period, electromagnetic, oscillate, emission, wavelength, amplitude,				
			Electromagnetism Electric current, electromagnet, induced magnetism, solenoid, Magnetic field				
Assessment	Summative assessment	KP1 CHEM1 KP1 PHY1 PPE – BIOL1	PPE – CHEM1 PPE – PHY1	KP2 BIOL KP2 CHEM KP2 PHY	PPE – BIOL PPE- PHY2 PPE- CHEM2	GCSE Exams	GCSE Exams
Links to the real world / careers / PD		Genetics •Geneticist • Fertility specialist/consultant •Palaeontologist •Biological engineer	Homeostasis and response • Drug developer • GP	Sustainability •Ecologist •Meteorologist <u>Acceleration</u> •Automotive engineer	Advanced Ecology •Environmental Data Manger •Conservationist. •Environmental Consultant.		
		Electrochemistry • Electrochemist •Battery engineer	Rates and equilibrium •Chemical industry. Waves		Organic chemistry •Forensic analyst •Environmental chemist,		

	 Engineer 			
		Electromagnetism		
		 Robotics engineer 		
		(work for aerospace)		
		 Sound engineer 		