	Half term 1	Half term 2	Half term 3	Half term 4	Half term 5	Half term 6
	Content delivered:	Content delivered:	Content delivered:	Content delivered:	Content delivered:	Content delivered:
	HSW Project: Working scientifically	Chemistry	Biology	Chemistry	Biology	Physics
	rockets and moon craters	Sublimation	The skeleton	Elements	Food chains and food webs	Current
Year 7	Physics	Solutions	Muscles and joints	Metals & non metals	Ecosystems	Charging
	The night sky	Solubility	Physics	Metals and acids	Ecology	End of year review and recap
	Solar system	Pure substances and mixtures	Food and fuels	Metals and oxygen	Competition	,
Science	The moon – heliocentrism	Biology	Renewable and non renewable energy	Displacement reactions	Flowers and pollination	
	Chemistry	Levels of organisation	Energy and power	Acids and alkalis	Fertilisation and germination	
	-	5			5	
	The particle theory	Cells		Indicators and pH	Seed dispersal	
	States of matter	Microscopy		Neutralisation	Physics	
	Changes of state	Specialised cells		Making salts	Series and parallel circuits	
	Diffusion	Diffusion			Resistance	
ey Words	Independent, dependent, control,	Pure, impure, solvent, solute, solution,	Tendon, ligament, muscle, joint,	Reversible, irreversible, chemical,	Ecosystem, habitat, organism, species,	Conductor, insulator, charge, flow,
evel 2	hypothesis, prediction, conclusion,	objective lens, magnification, eyepiece,	antagonistic pair, cartilage, diet, energy,	physical, element, compound, mixture,	energy, predator, prey, consumer,	complete circuit, resistance, ohm,
evel 3	evaluation, thrust, acceleration, gravity,	microscope slide, nucleus, cell	joule, kilojoule, nutrient, atomic,	metal, non-metal, pH, strength,	producer, respiration, excretion,	voltage, parallel, series
evel 5						voltage, parallel, series
	solid, liquid, gas, density, kinetic energy,	membrane, cell wall, cytoplasm,	chemical, elastic potential, gravitational	concentration/concentrated, dilute,	herbivore, carnivore, omnivore, stigma,	
	order/ordered, random, melting,	mitochondria, ribosome, chloroplast,	potential, kinetic, conservation, nuclear,	oxidation, alkali, displacement,	anther, pollination, pollen, pollinator,	
	freezing, temperature, thermometer,	vacuole, micrometre, differentiated,	strain, thermal, transfer, biofuel, coal,	reactive/reactivity, neutralisation,	germination, conductor, insulator,	
	rate	concentration gradient	electricity, fossil, fuel, renewable, non-	indicator	charge, flow, complete circuit,	
			renewable, oil, geothermal,		resistance, ohm, voltage, parallel, series	
			hydroelectric, solar, wind turbine			
Vhere previous knowledge	KS2: Describing the movement of planets	KS2: Dissolving solids in liquids &	KS2: Human skeleton and muscles	KS2: Describing chemical changes &	KS2: The role of flowers; constructing &	KS2: Comparing how electrical
as occurred and future	in the solar system; explaining day and	changes of state	KS3: Year 8 Energy	describing how to recover a substance	using food chains	components function
				_	•	
evelopment	night	KS3: Year 8 Elements and compounds	KS4: Y10 Energy (P4.1)	from a solution	KS2: Constructing and analysing simple	KS3: Y8 Electromagnets
S2 → <mark>KS3</mark> → KS4 → KS5	KS3: Year 8 Elements and compounds	KS4: Year 10 Cells (B1.1)	KS4: Y10 Particle model of matter (P4.3)	KS3: Year 8 Periodic table	series circuits	KS4: Y10 Electricity (P4.2)
	KS4: Year 10 Bonding (C4.2)	KS4: Year 11 Purity (C4.8)	KS5: Y12 Sliding filament theory	KS4: Y10 Atomic structure (C4.1)	KS3: Y8 Adaptations	KS5: Year 12 Electrical circuits
	KS4: Year 11 Space physics (C4.8)	KS5: Y12 Cells		KS4: Y10 Chemical changes (C4.4)	KS4: Y10 Electricity (P4.2)	
	KS5: Year 13 Entropy			KS5: Y13 Acids, bases and buffers	KS4: Y11 Ecology (B4.7)	
	KS5: Year 13 Space				KS5: Y12 Ecological relationships	
Common Misconceptions	Correct drawing of particles in particle	That solutes get absorbed by the	That bones are solid	Elements are the smallest thing	The direction of arrows in food chains	Earth wires and fuses do the same thi
	model	solution	The older you are the more energy you		and food webs	
	inouci	Solution	need		Batteries and cells are the same	
itoroov	Scientific writing (HSM/), project write up	Scientific writing (USM), Microscopy	Scientific writing (HSW): Burning fuels	Scientific writing (HSW): Making salts		Scientific writing (HSW): Investigating
iteracy	Scientific writing (HSW): project write up	Scientific writing (HSW): Microscopy			Scientific writing (HSW): Ecology	
	NHTW reviews as starter activities	NHTW reviews as starter activities	NHTW reviews as starter activities	NHTW reviews as starter activities	NHTW reviews as starter activities	current
						NHTW reviews as starter activities
Numeracy	Choosing and drawing appropriate	Unit conversions	Drawing appropriate graphs	Calculating and converting masses	Calculating means	Drawing graphs and tables
	graphs	Rearranging formulae	Rearranging formulae		Drawing graphs and tables	
	Presenting data using tables					
łomework	Completion of kerboodle section quizzes	Completion of kerboodle section guizzes	Completion of kerboodle section quizzes	Completion of kerboodle section quizzes	Completion of kerboodle section guizzes	Completion of kerboodle section quizz
Assessment this half-term	GL Assessment	Unit test for chemistry	Unit test for biology	Unit test for chemistry	Unit test for biology	Unit test for physics
	Unit test for physics		Unit test for physics			End of year test
Career opportunities	LIFE SKILLS: Understanding tides and	LIFE SKILLS: Understanding how to	LIFE SKILLS: Understanding how muscles	LIFE SKILLS: Understanding how	LIFE SKILLS: Understanding the role of	LIFE SKILLS: Dangers of electricity
Employment Links	temperatures for changing states	separate substances and the roles of	and joints work & understanding where	neutralisation works	conservation	EMPLOYMENT: Electrician
. ,	EMPLOYMENT: Pharmacist	cells in the body	electricity comes from	EMPLOYMENT: Welder	EMPLOYMENT: Environmental scientist	
		EMPLOYMENT: Forensic scientist	EMPLOYMENT: Physiotherapist			
nrichment	REACT roadshow			Nancy Rothwell Award	Visit to Maryport aquarium to	review food chains and webs
ractical activities/HSW	Moon craters	Separation techniques	Dissection of trotter or chicken wing	Metals and acids	Ecology	Measuring current
			Burning fuels	Displacement reactions	Flower dissection	
	Changing states	Microscopy	Burning rueis			
				Testing pH	Series and parallel circuits	
	Diffusion					1
				Making salts	Resistivity	
mployability Skills	Aiming high Literacy	Aiming high Literacy	Aiming high Literacy	Aiming high Literacy	Aiming high Literacy	Aiming high Literacy
mployability Skills		Aiming high Literacy Creativity Numeracy	Aiming high Literacy Creativity Numeracy			Aiming high Literacy Creativity Numeracy
mployability Skills	Aiming high Literacy			Aiming high Literacy	Aiming high Literacy	
mployability Skills	Aiming high Literacy Creativity Numeracy Leadership Independence	Creativity <mark>Numeracy</mark> Leadership Independence	Creativity Numeracy Leadership Independence	Aiming high Literacy Creativity Numeracy Leadership Independence	Aiming high Literacy Creativity Numeracy Leadership Independence	Creativity Numeracy Leadership Independence
mployability Skills	Aiming highLiteracyCreativityNumeracyLeadershipIndependenceListeningCommunication	Creativity Numeracy Leadership Independence Listening Communication	Creativity Numeracy Leadership Independence Listening Communication	Aiming highLiteracyCreativityNumeracyLeadershipIndependenceListeningCommunication	Aiming highLiteracyCreativityNumeracyLeadershipIndependenceListeningCommunication	Creativity Numeracy Leadership Independence Listening Communication
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