CURRICULUM MAP 2023-2025

DATE: July 2023

SUBJECT/ AREA: Science

SUBJECT/ AREA LEADER: S. Campbell

		AUTUN	1N TERM 2023	SPRIN	NG TERM 2024	SUMMER	TERM 2024
		Half term I	Half term2	Half term3	Half term4	Half term5	Half term6
		Biology:	Chemistry:Metals		Biology:Eco		Physics:
			and Non-metals		systems	Chemistry:	Physic
		Technology	Sub-topics:		Sub-topics:	Metals and	FITYSIC
		in Biology			·	acids	technology
KEY STAGE 3	YEAR	Sub-topics:	- Modelling the atom -Groups of periodic table	Physics	-Photo synthesis	-Acids and metals	Sub-topics:
	7/8/9		-Rows of periodic table	Light	-Leaves	-Metals	-How your phone
		-Finger	-Group 7		-Plant minerals	and water	works
		printing	-Group 1		-Aerobic respiration	-Acids and metal	-Lights that
		-Medicine	-Non-metals		-Anaerobic	oxides	turn on
		-Vaccine			respiration	-Acids and metals carbonates	in the
		-Antibiotics	-Metals		-Food chain	carponates	dark (LDR)

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		-Pain killer -Blood typing			-Food web	-Metal displacement reactions	-Keeping our house at the same temperature (Thermostat)
KEY STAGE 4	YEAR 10/11	Physics: Magnets and electro -magnetism -Magnetic fields -Interaction of magnets -Uses of electromagnets -Making electromagnets: solenoid with	Chemistry: Reaction of Acids: -Acid -Alkalis -pH scale -Acid & Metals -Acid & Metal carbonate -Testing for hydrogen -Testing for carbon dioxide -Neutral isation reaction -Crystall	Biolog y: Nervo us system and reflex actions	Chemistry: Earth and atmosphere -Composition of Earth's atmosphere -The Earth's early atmosphere -How carbon dioxide was removed from Earth's early atmos. (Photo syntesis)	Biology: How the body is coordinated -Hormones -Hormones in the menstrual cycle -Hormones used to control the menstrual cycle (contraception) -Hormones	Chemistry: Fuels and human impacts on the atmosphere -Burning fuel completely -Burning fuel is not enough oxygen

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	iron core and	isation of salt solution to	-How oxygen came	used to improve	-Effects of
	conducting wire	make solid salts	into the Earth's	fertility	burning
	-How to	-Making soluble salts chlorides & Sulphates)	atmosphere		fossil
	increase the strength of electro	-Naming salts			fuel
	-magnets				-Acid rain
	magnets				-Global
					dimming
					-Carbon
					monoxide
					poisoning

CURRICULUM MAP 2023-2025

SCIENCE PLAN 2024-25	AUTUMN TERM 2024		SPRIN	SPRING TERM 2025		SUMMER TERM 2025	
2024-23	Half term I	Half term2	Half term3	Half term4	Half term5	Half term6	
KEY STAGE 7/8/9	Physics: Earth & Atmosphere -Earth's structure -Atmosphere structure -Sedimentary rocks -Igneous rocks -metamorphic rocks -rock cycle	Biology: Health & Iifestyle -Nutrients -Food test -Unhealthy diet -Drugs -Alcohol -Smoking	Physics: Motion & Forces Sub-topics: -Forces -Contact forces -Non- contact forces	Physics: Energy Sub-topics: Energy resources Thermal energy- measuring temperature -Solar energy -Wind energy -Geo-thermal energy -Tidal energy	Chemistry: Pure & impure substance Subtopic: Separating mixture -Mixtures -Solutions -Filtration -Evapor	Biology: Interaction & inter -dependence -Variation -Continuous Variation -Discontinuous variation -Adaptation	

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		-volcanoes		-Speed	-Hydro electric	ation	-Competition
		-Earth quakes		-Friction		-Distill	-Inheritance
		-Climate change		-Air		ation	-Extinction
		-Recycling		resistance		-Chroma	-Natural
						tography	selection
		Biology: How	Physics:	Chemical	Biology:	Physics:	Chemistry: Our
		the body fights	Electricity	reaction -Measuring	Structure of the human	Waves -What are	world
		diseases	-Current	reactions -Factors	body	waves (parts of wave)	-What is
		-The skin	-Resistance	affecting	-Animal Cells (nucleus,	-Transverse & longitudinal	crude oil
KEY STAGE	YEAR 10/11	-White blood cells	- Alternating current	speed of reaction	cytoplasm & cell	wave	-Separating
		-Antibotics	(mains current		membrane)	-Types of transverse	crude oil -Uses of
		-How Vaccines work	-Direct current (batteries and cells)		-Plants cells	waves -Types of	crude oil (medicine,
		-How viruses works	-Three-pin-plug		(nucleus,	longitudinal	manufacturing,
		-Infectious	-Fuse		cytoplasm & cell	waves - Amplitude vs	fuel)
		(communicable)	-i use		membrane)	frequency	-Drinking

CURRICULUM MAP 2023-2025

diagona (anhumaticus)	Coming aiments	Consisting desired	Marra	
diseases (only major &	-Series circuit	-Specialized animal	- Wave	water sources
relevant ones)	-Parallel circuit	cells	calculations	-How water
-How drugs are	r araner on care	-Levels of organization	-Electro	is made drinkable
developed	-Energy usage (kWh)	2010:00 01 0180:2010:	magnetic	UK
G. G		-Major organs in the	spectrum:	
		body (location &	-Uses of X-ray	-Water
		function)	e.g. imaging	pollution
		-Human circulatory	bones	-Distillation of sea water
		system (dual	-Uses of IR e.g	(salt water)
		circulatory system)	house radiator	(**************************************
		circulatory system)	-Uses of	
		- Identifying different	Microwaves	
		blood cell from images	e.g. microwave	
			oven	
			-Uses of radio	
			waves e.g. radio & TV	
			signals	
			-Uses of visible	
			light	
			- Uses of UV	
			e.g. killing	
			micro organisms	
			oi gainsins	

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		, , , , , , , , , , , , , , , , , , ,
		-Uses of
		Gamma-rays