

## **Year 10 Curriculum Plan 2024 - 2025**

Week 1 Wee	ek 2 Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	
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Topics	Cells and organisation				Matter				Energy resources		Conservation and dissipation of energy	
Autumn	Animal and plant cells, specialised cells, Microscopes	Diffusion, Osmosis, Active Transport	Exchange of materials	Cell Division	Atoms, States of Matter	Seperating Mixtures	lons, Atoms and Isotopes	Electronic Structures	The demand for energy, renewable and non renewable energy types	Energy and the Environment, Energy issues, supply vs demand	Energy Stores, Conservation of Energy, Work Done, GPE, KE	Dissipation and Efficiency, Energy and Power
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Topics	Structures and bonding			The Periodic	Electric Circuits and electricity to your home	Organisatio	n - Digestive	Non -	Communicable
Topics Structures and boliding			nung	table	Electric Officials and electricity to your nome	System and circulatory		Communicable diseases	
Spring	lonic bonding and giant ionic structures	Covalent Bonding, giant covalent structures	Metallic bonding and nano science	Periodic table, group 1 and 7	Electric fields, Current and Charge, Potential difference and resistance, electrical components, series and parallel circuits,	Human Digestive System, Chemistry of food, Enzymes		, ,,	

Topics	Molecules and matter		Energy transfer by heating	Bioenergetics		Adaptations, interdependence and competition		changes Changes		Rates and Equilibrium	
Summer	, ,		, . , . , , . ,	Photosynthesis and Plant transpt systems	Respiration, aerobic and anaerobic	The importance of communities, organisms and their environments	Competition, Adapt and survive	series, extractions	reactions, Bond energy + calculations.	Rates of reaction - effect of Surface area, temperature, concentration, pressure and catalysts. Reversible reactions and equilibria	

## RD HOMESCHOOL