

Year 8 – SCIENCE Programme of Study

Term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Teacher 1	Skills 8	Energy 8	Forces 8	Waves 8	Electromagnets 8	Earth 8
		Work & Heating & Cooling	Pressure & Speed	Light	Parallel Circuits & Electromagnets	Climate
	Unit of experiments looking at particular skills, tailored towards the required practical demand at KS4 (includes Maths in Science).	Use the work done equation & explain energy transfers (conduction, convection, radiation).	Recap resultant forces. Calculate pressure. Use the speed, distance, time equation. Plot & interpret motion graphs.	Identify light waves as transverse. Investigate reflection & refraction.	Investigate parallel circuits, magnetism & electromagnets	Describe the carbon cycle & its impact on the atmosphere & climate change.
Assessment	Skills/Ecosystems mini-test		Forces/Matter mini-test			Summer term test
Teacher 2	Organisms 8	Ecosystems 8	Matter 8	Reactions 8	Genes 8	Microbes 8
	Breathing & Digestion	Bioenergetics	Periodic Table & Elements	Types of Reaction	Evolution & Inheritance	
	Describe the function of the respiratory & digestive systems.	Recall the difference between aerobic & anaerobic respiration. Investigate fermentation. Recap plant cell structure, investigate factors affecting photosynthesis.	Recognise how the Periodic Table is organised. Start to balance chemical equations.	Investigate different types of chemical reaction (e.g. combustion and neutralisation).	Describe the genetics of reproduction & inheritance.	Identify types of microbes, how they are used, how they spread diseases and the role of the immune system and antibiotics.
Assessment		Autumn term test		Spring term test	Electromagnets/Genes mini-test	

Biology

Chemistry

Physics