

Year 7 – SCIENCE Programme of Study

Term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Teacher 1	Forces 7	Energy 7	Electromagnets 7	Waves 7	Earth 7	Weather 7
	Gravity & Contact forces	Energy Costs & Energy Transfer	Series Circuits & Resistance	Sound	Earth Structure, Rocks & Ores	
	Define what a force is & describe the effect of a resultant force.	Describe how energy is transferred between different stores. Calculate energy costs.	Draw circuit symbols, recall what current is and how it behaves in a series circuit. Describe what resistance is.	Define what a wave is & describe features of waves. Identify a sound wave as longitudinal.	Describe how metamorphic, sedimentary & igneous rocks form. Describe the structure of the Earth.	Describe different types of weather and its effect on the human body.
Assessment	Forces/Skills mini-test		Waves/Electromagnets mini-test		Summer term test	
Teacher 2	Skills 7	Organisms 7	Ecosystem 7	Genes 7	Matter 7	Reactions 7
		Cells, Tissues & Organs	Interdependence	Human Reproduction & Variation	Particle Model & Separating Materials	Acids & Alkalis
	Unit of experiments looking at particular skills, tailored towards the required practical demand at KS4 (includes Maths in Science).	State the differences between plant & animal cells. Use a microscope. Linking tissues, organs & organ systems.	Draw food chains & webs. Define bioaccumulation. Explain predator-prey relationships. Identify how pollination & seed dispersal occur.	Describe reproductive systems, sexual reproduction & species variation. Distinguish between continuous & discontinuous variation.	Identifying properties of solids, liquids & gases. Investigate separation techniques (filtration, distillation, evaporation, chromatography).	Describe the difference between chemical and physical changes. Recall the pH scale. Investigate acid-base reactivity and reactions of metals with water & acids.
Assessment		Autumn term test		Spring term test		Matter/Reactions mini-test

Biology

Chemistry

Physics