

Main Points of the Science course

UNIT	Plants	Cells and ecology	Energy	Light	Matter	Mixtures and separating
	Structure of the plant	MRSCGREN	Active and stored energy types	Longitudinal and transverse waves	Solid, liquid and gases – particle drawing	Mixtures, compounds and elements
	Photosynthesis – linked to leaf structure	Plant and animal cell	Conservation of energy law	Transparent, translucent and opaque	Solid, liquid gas triangle – change of state	Elements and their names/symbols
	Starch test – testing for photosynthesis	Microscope and making slides	Transforming energy stories	Drawing shadows – light as a straight ray	Expansion and contraction when hot and cold	Solutions and dissolving
	Parts of a flower – Male and female	Habitat and Niche	Output / input energy – useful and wasted	Plane mirrors – incident and reflecting rays	Conduction, convection and radiation	Methods to separate mixtures
	Pollination – wind and animal	Feeding types	Power = energy / time	Concave and convex mirrors and ray diagrams	Convection currents	Magnetism, filtering, evapourating
	Seed dispersal – different types	Food chains and webs	Energy efficiency	Light rays going through lens – concave and convex	Radiation and colours	Chromatography and distillation
	Seed structure	Adaptations – structural, physiological and behavioural	Renewable and non-renewable energy sources	Eye structure and lens needed to correct faulty vision	Diffusion of particles in air and water	Chemical and physical changes
	Seed germination		Advantages and disadvantages of energy sources	Colour – primary and secondary and prisms		Reactants and products – counting atoms