

Year 10 Science Curriculum Map						
HalfTerm	Autumn I	Autumn 2	Spring I	Spring 2	Summer I	Summer 2
Big Themes	Biology: Homeostasis and Response Chemistry: Energy Changes	Chemistry: Rate and extent of chemical change Physics: Electricity Biology: Bioenergetics	Physics: Waves	Chemistry: Quantitative chemistry and chemical analysis Biology: Infections and response	Chemistry: Organic Chemistry and electrolysis	Physics: Atomic structure Physics: Space (triple only)
Knowledge and skills covered	 The human nervous system Hormonal coordination in humans Plant Hormones Exothermic and endothermic and reactions Chemical cells and fuel cells Skills: -maths calculations -practical work -evaluation	 Rates of reaction Reversible reactions and dynamic equilibrium Current, potential difference and resistance Series and parallel circuits Domestic uses and safety Energy transfers Static electricity Photosynthesis Respiration Skills: -equations -graphs -practical work -handling data	 Waves in air, fluids and solids Electromagnetic waves Black body radiation Skills: practical work using tables 	 Relative mass and moles Conservation of mass Reacting masses Yield and atom economy Gas volumes The concentrations of solutions Purity, formulations and chromatography Identification of common gases Identification of ions by chemical and spectroscopic means Electrolysis and half equations Infections and response Monoclonal antibodies Plant disease Skills: -calculations -rearranging equations -practical work -reading data from tables and graphs	 Crude oil and alkanes Cracking and alkenes Alcohols, carboxylic acids and esters Polymers Biochemistry Skills: -practical work -scale	 Atoms and isotopes Atoms and nuclear radiation Hazards and uses of radioactive emissions and of background radiation Nuclear fission and fusion Solar system, Stability of orbital motions, Satellites Red shift Skills: -scale
Knowledge organisers and more detailed topic resources can be found on all student Google Classrooms						