Baines Science Year 10 Curriculum – Sept 2023

<u>Half term 1</u>	Half term 2	Half term 3	Half te	rm 4	Half term 5		Half term 6						
<u>Biology</u>													
Cells and control	Genetics	Natural selection and genetic modification	Health, Disease and development of medicines		Plant structures and their functions		Plant structures and their functions	Animal coordination, cells and control					
Investigate biological specimens using microscopes, including magnification calculations and labelled scientific drawings from observations Investigate the effect of pH on enzyme activity Investigate osmosis in potatoes					Investigate the effect of light intensity on the rate of photosynthesis		Investigate the rate of respiration in living organisms						
							End of year assessment						
			Chemistry										
Overarching concepts of chemistry	Chemical changes - Acids and Alkalis Investigate the change in pH on adding powdered calcium hydroxide/calcium oxide to a	Calculations using masses	Electrolysis, obtaining and using metals Investigate the e copper sulfate s inert electrodes	olution with	Electrolysis, obtaining and using metals	Quantitative chemistry (separate only)	Groups in the periodic table						
	fixed volume of dilute hydrochloric acid Investigate the preparation of pure, dry hydrated copper sulfate crystals starting from copper oxide including the use of a water bath		electrodes				Fnd of year	assessment					

<u>Physics</u>												
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Waves	Light and	Motion	Motion and forces	Radioactivity	Astronomy	Energy & Forces Doing	Electricity	Static				
	EM	and forces			(separate	Work		electricity				
	Spectrum				only)			(Separate only)				
Investigate the suitability of	Investigate refraction in		Investigate the relationship			Construct electric		ical circuits to: a				
equipment to measure the	rectangular glass blocks in		between force, mass and			investigate the re		ationship between				
speed, frequency and	terms of the interaction of		acceleration by varying the				potential difference, current and					
wavelength of a wave in a solid	electromagnetic waves with		masses added to trolleys				resistance for a res	istor and a filament				
and a fluid	matter						lamp b test series and parallel circuits					
							using resistors and filament lamps					
							End of year assessment					