

Baines Science Year 10 Curriculum

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

Physics

Waves	Light and EM Spectrum	Motion and forces	Motion and forces	Motion and forces	Radioactivity	Radioactivity	Radioactivity	Astronomy (separate only)
<i>Investigate the suitability of equipment to measure the speed, frequency and wavelength of a wave in a solid and a fluid</i>	<i>Investigate refraction in rectangular glass blocks in terms of the interaction of electromagnetic waves with matter</i>	<i>Investigate the relationship between force, mass and acceleration by varying the masses added to trolleys</i>						
								<u>End of year assessment</u>