









Curriculum Overview for Science Year 8

<p>Half Term 1: Investigations in a New Context</p> <p>This is a slightly different unit to normal where the pupils apply what they have learnt up to now to new contexts which all include a practical investigation.</p> <p>Substantive Knowledge: Adaptations Heat transfer Particle model Collision theory Forces Diffusion</p> <p>Disciplinary Knowledge: Planning a practical Sequencing a method Safely completing a practical Collection of data Plotting graphs Analysing data</p>		<p>Article homework – reading for meaning, Model reading and highlighting to pick out key details, reading of data, Skim reading</p>
		<p>Adaptation, Convection, Radiation, Insulate, Trend, Collision, Particle, Force, Pendulum, Risk, Diffusion, Thermal, Energy, Population, Bioindicator</p>
		<p>Recall test Written Assessment</p>
		<p>Article Homework to promote reading like a scientist Revise for recall test Optional revision for written assessment and wish tasks when complete.</p>
<p>Half Term 2: GCSE Biology (1 lesson per week)</p> <p>Substantive Knowledge: Cell structure Microscopy</p> <p>Disciplinary Knowledge: Writing comparisons Using a microscope</p>		<p>Article homework – reading for meaning, Model reading and highlighting to pick out key details, reading of data, Skim reading</p>
		<p>Adaptation, Convection, Radiation, Insulate, Trend, Collision, Particle, Force, Pendulum, Risk, Diffusion, Thermal, Energy, Population, Bioindicator</p>
<p>Half Term 2: GCSE Chemistry (1 lesson per week)</p> <p>Substantive Knowledge: Atomic structure Electron configuration Development of the atom</p> <p>Disciplinary Knowledge: Writing comparisons Development of models using evidence</p>		<p>Recall test Written Assessment</p>
<p>Half Term 2: GCSE Physics (1 lesson per week)</p> <p>Substantive Knowledge: Energy stores Energy transfers Transfer chains and Sankey diagrams</p> <p>Disciplinary Knowledge: Making calculations Representing unseen concepts</p>		<p>Article Homework to promote reading like a scientist Revise for recall test Optional revision for written assessment and wish tasks when complete.</p>

