

Key Stage	Homework
3	<p>Biology –</p> <p>Design and create a model of the digestive system, explaining the structure and function of organs.</p>
	<p>Chemistry –</p> <p>Create a website page to explain the different reactions that can take place with metals. (e.g. metals and oxygen/ metals and water). Include information on metals, reactions and word/formulae equations.</p>
	<p>Physics –</p> <p>Design an experiment to investigate reflection and refraction. Include an aim, hypothesis, method and results table to record your results.</p>
	<p>British values –</p> <p>Research British scientists and create a poster on the different scientists and what theories they proposed.</p>
4	<p>Chemistry - Haber Process</p> <p>Create a newspaper article including the following:</p> <ol style="list-style-type: none"> <li>1) Describe the Scientist who proposed the process – create a profile on him – name, age, proposed theory.</li> <li>2) Describe the process.</li> <li>3) Explain the importance of the process.</li> </ol>
	<p>Biology – Mitosis and Meiosis</p> <p>Create a powerpoint presentation on:</p> <ol style="list-style-type: none"> <li>1) Mitosis – what is it and describe the process.</li> <li>2) Meiosis – what is it and describe the process.</li> <li>3) Explain the importance of both processes.</li> <li>4) Create a table to compare both processes.</li> </ol>
	<p>Physics – Electricity</p> <p>Create a poster on the history of electricity:</p> <ul style="list-style-type: none"> <li>- When was it first discovered?</li> <li>- Who discovered it?</li> <li>- How has it evolved?</li> <li>- Benefits and drawbacks of electricity.</li> </ul>
	<p>Social, Moral, Cultural and Spiritual links to Science:</p> <p>Create a website page on A3 paper –</p> <ol style="list-style-type: none"> <li>1) Define each key word – social, moral, cultural and spiritual.</li> <li>2) For each one find a science topic linked to each word above for chemistry, physics and biology.</li> </ol>
5	<p>Chemistry –</p>

	Design a step by step guide for interpreting NMR.
	Biology –  Write an essay to explain the importance of structure and function (25 marks)
	Physics –  Design an experiment to investigate electromagnetism. Include background information, aim, hypothesis, variables, method, results table.
	Social, Moral, Cultural and Spiritual links to Science:  Create a website page on A3 paper –  <ol style="list-style-type: none"><li>1) Define each key word – social, moral, cultural and spiritual.</li><li>2) For each one find a 5 topic linked to each word for the course you are doing – Biology, Chemistry, Physics, BTEC Science or BTEC Health and Social Care.</li></ol>