

# Applied Science

## Year 12 Prep Task

<p><b>Key Info</b></p> <p>Working as a group to summarise your existing knowledge.</p>		
<p><b>Week beginning: Monday 5<sup>th</sup> September</b></p>		<p><b>Expected completion time: 200-300 minutes</b></p>
<p><b>Activities to be completed</b></p>	<p><b>Location of resources</b></p>	<p><b>Additional resources/support</b></p>
<p>You will be <b>working as a group to summarise your foundations of Biology, Chemistry and Physics knowledge</b> gained from your GCSE studies and studies over the summer break.</p> <p>You are expected to create a <b>mind map</b> as a group.</p> <p>I suggest you split the topics between yourselves, write all of your ideas on the post-its provided then go about arranging them on the paper provided.</p> <p>You should aim to include the following topics and subtopics:</p> <ul style="list-style-type: none"> <li>• Cells and organelles</li> <li>• Microscopes – history, how to make a slide, how to use a light microscope, electron microscopy</li> <li>• Osmosis, diffusion and active transport</li> <li>• Atoms and the periodic table.</li> <li>• Trends in Groups 1 and 7.</li> <li>• Bonding (Ionic, Covalent and Metallic).</li> <li>• Waves – longitudinal and transverse</li> <li>• Uses of waves</li> <li>• Wave machine and ripple tank practicals</li> </ul>	<p>Large paper found with Mrs. Daw in Study Centre along with access to science books (revision guides in study centre) and Seneca available online.</p>	<p>Email Miss Lloyd or Dr Paine</p> <p>Year 13 Chemistry, Biology or Physics students (Mrs. Daw can point them out).</p> <p>Each other, this should be tackled as a group.</p> <p>Mrs. Daw in Study Centre on how to research.</p>
<p><b>Work to be submitted:</b></p> <p>Leave with Mrs. Daw in Study Centre for collection.</p>		