

# YEAR 9 CURRICULUM PLAN FOR TECHNOLOGY (RM)



TOPIC	KEY LEARNING	ASSESSMENT
Earbud Wrap (3D CAD / CAM Inc. biomimicry and design iterations.)	<ul style="list-style-type: none"> <li>○ Understand the advantages and disadvantages of using computer aided design (CAD) &amp; computer aided manufacture (CAM).</li> <li>○ Understand how CAM equipment can be used in a variety of applications: CNC embroidery, vinyl cutting, CNC milling/routing, laser cutting and 3D printing.</li> <li>○ Be able to produce a CAD image and 3D CAM model of a sketched idea.</li> </ul>	<ul style="list-style-type: none"> <li>○ Sign up to a Tinker CAD account (using your school email address) and complete the 4 introductory lessons.</li> <li>○ Revise for class test</li> </ul>
Product analysis including scales of production	<ul style="list-style-type: none"> <li>○ Understand the 3 different scales of production</li> <li>○ Be able to produce a 'Product Analysis' and explain why it is important</li> </ul>	<ul style="list-style-type: none"> <li>○ Completed Product Analysis using Assessment Criteria discussed in class</li> </ul>
Sustainability.	<ul style="list-style-type: none"> <li>○ understand how people and products effect the environment</li> </ul>	<ul style="list-style-type: none"> <li>○ Complete the A3 information sheet</li> <li>○ Revise for class test</li> </ul>
Renewable energy.	<ul style="list-style-type: none"> <li>○ Be able to name and understand the 6 different methods of producing renewable energy</li> </ul>	<ul style="list-style-type: none"> <li>○ Suggest a new way of powering an existing product</li> <li>○ Revise for class test</li> </ul>
Extended Reading & Writing task.	<ul style="list-style-type: none"> <li>○ To be able to read an article on how a different culture has influenced design ideas and answer the associated questions.</li> </ul>	<ul style="list-style-type: none"> <li>○ Question and answer sheet.</li> <li>○ Revise for class test.</li> </ul>