

# Design Technology Year 7

Prior Learning
You have been taught a variety of creative and practical activities how to design, make, and evaluate a range of materials in a variety of different contexts. You are able to use research to help you design and use a variety of tools and equipment to help you perform practical tasks such as shaping, cutting, joining and finishing.
We will be learning about...
During this rotation, we will be studying Biomimicry and how we can use this to inspire our designs. You will develop knowledge of how to use a range of tools safely and develop skills in applying a range of techniques in designing, cutting and finishing.

Lesson	Key Learning	Homework
Lesson 1&2	<ul style="list-style-type: none"> <li>Health &amp; Safety Training</li> <li>Project introduction</li> </ul>	Health and safety poster.
Lesson 3&4	<ul style="list-style-type: none"> <li>Investigating the design context</li> <li>Drawing techniques</li> <li>Initial design ideas</li> </ul>	Retrieval- Prior knowledge check quiz
Lesson 5&6	<ul style="list-style-type: none"> <li>Final Isometric design</li> <li>ASSESSMENT POINT 1 - Investigate &amp; Design</li> <li>Marking out materials - Working with wood</li> </ul>	Literacy- Spellings (key words)
Lesson 7&8	<ul style="list-style-type: none"> <li>Metal's introduction - Where does it come from?</li> <li>Shaping and forming metal</li> </ul>	Literacy- Spelling test
Lesson 9&10	<ul style="list-style-type: none"> <li>Shaping wood using coping saw</li> <li>Plastics introduction - What types are there?</li> </ul>	Retrieval- Knowledge check quiz
Lesson 11&12	<ul style="list-style-type: none"> <li>Finishing final product</li> <li>ASSESSMENT POINT 2 - Make &amp; Evaluate</li> </ul>	Flip Learning- Learning about designers
Lesson 13&14	<ul style="list-style-type: none"> <li>Moving to mars design challenge</li> <li>Solving a problem through design</li> </ul>	End of project.

Key Vocabulary							
Aluminium	Acrylic	Biomimicry	Evaluate	Isometric	Specification	Thermoforming	Wasting
Future Learning							
Year 8: Electronics Project.	Year 9: Sustainability Project.	GCSE Product Design- designing your own product against a brief.		Careers: Product Designer, Architect, Software Engineer, Civil Engineer, Website Designer, Interior Designer, Games Designer and many more...			

Homework guidance
Students are given homework at regular intervals at least every two weeks throughout the project. The homework tasks are shared on synergy for both parents and students to access.
How can you help?
Parents can support their child in DT by talking to them about the project they are undergoing and encouraging them to do their best. If parents take an interest in their practical project work this helps to inspire and motivate students to excel in the subject. It is also helpful if students are provided with a quiet place to do their homework tasks. Many homework tasks can be researched by using google but there are some good sites which are free to access such as: 'Technology student.com' and 'Mr D & T'.