



Year 7 Box Project

16 Lessons

Aims:
The broad aim of this scheme is to provide the students with an experience that will give the students a chance to use materials, tools and processes that lay a foundation for study in KS4.

Key Skills	Literacy Links:	Numeracy Links:
<p>The key content in this unit is establishing basic marking out, cutting shaping and finishing of materials that students may not have previously experienced. An understanding of these potentially new materials will be imparted.</p>	<p>Keywords: Try Square, Tenon saw, Vertical belt sander, Glass paper, polish, polymer, acrylic, laser. Terminology for tools and skills will be introduced and explained, as appropriate throughout the rotation.</p>	<p>Use of measuring will see a real world application of numeracy skills. Units used will be mm in line with good engineering practice.</p>
Assessment	Cross-Curricular Links	
<p>Students will be assessed against the criteria of; Marking out and selecting materials Cutting and shaping materials Surface preparation and the application of finishes. As outlined in the AQA Material Technology Technical awards marking scheme The 8 key tasks below are assessed against the 4 bands of Excellence/Secure/emerging/developing on the student personal earning checklist that is regularly shared with parents.</p>	<p>Production of materials will touch on geographical issues.</p>	
	SMSC opportunities and British Values	
	<p>Students will be able to consider suitable decorations following moral and ethical discussions. Sustainability and the environment will be considered.</p>	

Opportunities for further learning

Students have the opportunity to demonstrate an exemplary level of working throughout this scheme of work. Students will be encouraged to think and express themselves in original ways, initiate ideas and define problems, push the boundaries of new techniques and processes and exploit the potential of the media they choose to work with. Specific tasks that will be introduced as part of this project will include: Marking out and cutting with accuracy in both traditional ways and using more technologically advanced CAD/CAM methods. Students will be encouraged to extend these new skills in work for other departments and their personal interests.