

	Term 1: Sept –Dec Content	Term 2: Jan-April Content	Term 3: April - July Content	Desired end of year outcomes
Year 10	<p><i>Students are working on their Eduqas Art & Design - 3D Design</i></p> <p><u>Box Project</u> Students are introduced to more independent design methods and are taught how to make a high quality box with dowel joints.</p> <p>Students decorate their boxes with CAD / CAM and they use Google Sketch up in order to come up with a range of ideas for the customisation of their box. Students are also introduced to isometric drawing and visualising ideas in 3D.</p> <p>Students are encouraged to theme their boxes on their interests and are taught more advanced pedagogy on Materials, Adhesives, finishes. and workshop processes.</p> <p>Students evaluate their project and they write ways in which they can improve their boxes.</p>	<p><u>Design and make project – Storage</u></p> <p>Students start their major project in this term and produce a portfolio of works. Students are introduced to designing products for a client and understand that products are designed for a purpose, target user and demographic.</p> <p>Students use the design skills that they learned in Term 1 to visualise their ideas and create interesting and innovative concepts on the theme of ‘storages’</p> <p>Students are encouraged to develop their ideas and ensure that they understand the design process, which leads to them creating a tangible product.</p> <p>Students use Google Sketch up and a range of modelling techniques to come up with their concepts. This is an opportunity for students to put the core skills they learned in term 1 into action.</p>	<p><u>Design and make project – Storage</u></p> <p>This term is all about manufacture. Students use CAD / CAM to create prototypes and understand the role of rapid prototyping in a real-world context.</p> <p>Students will use cross curricular skills of scales and proportion. Students will also use maths to come up with cutting lists for their components which will give them the parts needed to make their products.</p> <p>Students will demonstrate their understanding of joining methods in the workshop and will be given free rein to make a product from resistant materials of their choice.</p> <p>Students will make key Aesthetic decisions such as material and finish selections.</p> <p>Students will be exposed to new materials and ‘smart materials’.</p>	<p>Students will create a box from pine with a range of dowel joints.</p> <p>Students will apply a finish to their product and understand the benefits of applying finishes to products.</p> <p>Students will understand the concept of designing a product for a particular user.</p> <p>Students will learn advanced skills in manufacture and creating products in the workshop.</p> <p>Students will develop their CAD / CAM skills and it will become a skill that they are competent at using independently.</p> <p>Students will have a greater understanding of material selection to achieve a desired finish.</p>
Assessment	Students are assessed on their folder work and receive regular feedback on their work. Students are assessed on the risks they take on their box lids and the quality of outcome achieved in their practical work.	Students are assessed on their folder work and receive regular feedback on their work. Students are assessed on the quality of their concepts and the means that they utilise to convey their ideas.	Students are assessed on their folder work and receive regular feedback on their work. Students are assessed on the quality of their concepts and the ability to manufacture their products in the workshop environment.	Key Contact Name & Email whamblin@glebe.bromley.sch.uk 020 8777 4540