

Subject	Year	Specialism
Design and Technology	Year 12 / KS5	Product Design

Project

Bauhaus Desk Organiser

Content (Intent)

Prior Learning: KS3/KS4 projects (Block Bot / Pinball / Bee Hotel / Phone Holder / Desk Tidy)

This project continues to build upon the skills that they have used previously (at KS3, KS4 and as part of their GCSE NEA project) while also introducing them to specific new ones. This helps to ensure that the students continue to become increasingly independent and can confidently use a wide range of tools and materials, and understand the manufacturing processes, that will then enable them to design and make products that are of the quality and complexity required at A Level.

As always, Health and Safety is a key focus of this project.

Future Learning: A Level NEA Project

How will knowledge and skills be taught (Implementation)	How will your understanding be assessed & recorded (Impact)
<p>Students will continue to develop knowledge and skill including:</p> <ul style="list-style-type: none"> Health and safety in the workshop Working from technical drawings How to measure accurately and to work to increasingly precise tolerances How to use: centre / metal lathe; tap & die set; wood lathe; mortiser; hand planer; laser cutter [including CAD] How to work with: softwoods; hardwoods; manufactured boards; aluminium; concrete; acrylic How to join components competently How to finish wood and metal components using appropriate techniques Designing for disassembly How to create a plan of manufacture 	<p>Assessment</p> <p>The project is assessed through ongoing teacher assessment.</p> <p>Main areas of assessment:</p> <ul style="list-style-type: none"> Quality of the plan of manufacture and the level of detail included Confident use of D&T specific language Evidence of safe working practices in the workshop Overall subject knowledge and understanding

How can parents help at home?

Students will plan, design and create their **plan of manufacture** partially during timetable lessons and also as homework, offering the opportunity to engage with them about the progress of the project and their growing level of confidence, specifically in terms of their practical skills.

Helpful further reading/discussion (including Reading and Vocabulary Lists)

<p>Reading</p> <p>For the context: https://www.youtube.com/watch?v=ZQa0BajKB4Q https://www.bauhaus.de/en/</p> <p>For all-round design inspiration: https://www.dezeen.com/</p>	<p>Vocabulary</p> <p>centre / metal lathe; tap & die set; Vernier callipers; engineers square; metal rule; wood lathe; external callipers; mortiser; hand planer; countersink; laser cutter</p>	<p>Careers Links</p> <p>Careers in: architecture; product design; display and exhibition design; model making; engineering; project management etc.</p>
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