



Subject	Year	Specialism
Design and Technology	Year 9	Product Design

Project

Bee Hotel Project

Content (Intent)

Prior Learning: Y7 Block Bot / Y8 Pinball Project

This project continues to build upon the skills that they have used previously, while also introducing them to some new ones, to ensure that the students become increasingly independent, and can confidently use an increasingly wide range of tools and materials, when designing and making products.

Health and safety is again a key focus of this project.

Future Learning: Y9 Phone Holder Project / Y10 Desk Tidy Project / GCSE NEA Project

How will knowledge and skills be taught (Implementation)	How will your understanding be assessed & recorded (Impact)
<p>Students follow a varied curriculum that is focused on developing knowledge through practical work.</p> <ul style="list-style-type: none"> • Health and safety in the workshop • Working from technical drawings • Following step-by-step making guides • How to measure accurately and to understand tolerances • How to use a: tenon saw, bench hook, try square & metal rule; bradawl; jig; disc sander, pillar drill; portable power drill; crosshead; screwdriver; countersink; staple gun • How to join components temporarily [screws] and permanently [nails / wood glue / staples] • How to create a plan of manufacture • How to finish wood using sand paper 	<p>Assessment</p> <p>Each project is individually assessed through teacher assessment and the final end of year progress and effort grades are based on all work completed <i>in Y9 D&T</i>.</p> <p>Main areas of assessment:</p> <ul style="list-style-type: none"> • Quality of the plan of manufacture and the level of creativity and originality shown in its design [eg an interactive / 3D element] • 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 make their **plan of manufacture** [manufacturing diary / story of manufacture etc] both during the timetable lessons and as homework. It would be great if you could talk this through with your child to help them develop their ideas further and ensure the task is complete.

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

<p>Reading</p> <p>For the contextual challenge: https://www.youtube.com/watch?v=izGQketQzTc&t=7s</p> <p>For all-round design inspiration: https://www.dezeen.com/</p>	<p>Vocabulary</p> <p>Tenon saw, bench hook, try square, metal rule, bradawl, jig, disk sander, pillar drill; portable power drill; crosshead screwdriver; countersink, staple gun</p>	<p>Careers Links</p> <p>Careers in: product design; display and exhibition design; model making; engineering; construction; carpentry etc.</p>
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