

Subject	Year	Specialism
Design and Technology	Year 7	Product Design
Project		
Block Bot Project		
Content (Intent)		
<p>Prior Learning: Y7 D&T and KS2 D&T Curriculum</p> <hr/> <p>Year 7 D&T is focused around skill building to ensure students feel confident using a range of tools and materials to design and make products.</p> <p>This project is designed to quickly develop a range of making skills including the use of hand tools and powered machinery. Students will design and make a wooden block bot with a USB powered LED. Health and safety is a key focus of this project.</p> <hr/> <p>Future Learning: Year 8 Pinball Project</p>		
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"> How to present design ideas in 2D The importance of colour How to annotate design ideas Health and safety in the workshop How to measure accurately How to use a: Tenon saw, bench hook, soldering Iron, disc sander, pillar drill How to assemble a simple LED circuit How to use CorelDraw to create decorations How to prepare files for laser cutting or etching How to finish wood using sand paper How to apply paint accurately 		<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 in Y7 D&T.</p> <p>Key project work will be used to build up a clear picture of student effort and progress. All homework will be given a progress and effort grade.</p> <p>Main areas of assessment:</p> <ul style="list-style-type: none"> Quality of initial design ideas Making Accuracy Safe working practices in the workshop Subject knowledge and understanding
How can parents help at home?		
<p>Students will complete their design work and homework in a project booklet. It would be great if you could talk this through with your child to help them develop their ideas further and ensure tasks are complete.</p>		
Helpful further reading/discussion (including Reading and Vocabulary Lists)		
<p>Reading</p> <p>VLE D&T site page www.technologystudent.com https://designmuseum.org/</p>	<p>Vocabulary</p> <p>Tenon saw, metal rule, bench hook, try square, disk sander, pillar drill, soldering iron, LED, isometric.</p>	<p>Careers Links</p> <p>Careers in electronics, design, engineering, graphic design craft – carpentry, model making etc.</p>