



Subject	Year	Specialism
Design and Technology	Year 8	Product Design

Project

Pinball Project

Content (Intent)

Prior Learning: Y7 D&T – Block Bot and use of CorelDraw in Zip Tag and Trick Deck

This project focuses on making skills and independence. Students manufacture a working pinball game with the theme of their choice.

Students will build on the skills from Y7 D&T developing design skills by adding colour and annotation to 2D sketches (all projects). Students will use a mood board and a theme as inspiration for design work (Zip Tag and Trick Deck). The following tools will be used again to reinforce skills learnt in Y7: Disc sander, pillar drill, hand tools, finishing skills and the use of epoxy resin/PVA glue. Students will also develop their CorelDraw skills to produce laser cut obstacles and work safely in the workshop following the rules learnt in Y7.

Future Learning: Y9 Bee Hotel and GCSE Product Design

How will knowledge and skills be taught (Implementation)	How will your understanding be assessed & recorded (Impact)
<ul style="list-style-type: none"> • Add more detail to annotation – use it to evaluate your ideas • How to use a: <ul style="list-style-type: none"> ○ Coping saw ○ Hegner saw ○ Bobbin sander • Working from technical drawings • Following a step by step making guide • Confidence using CorelDraw to laser cut and etch obstacles • Assembling working mechanisms • Creativity and independence in the workshop 	<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 Y7 D&T</i>.</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"> • Accuracy • Quality of finish • Creativity of obstacles and use of CAD • Final product

How can parents help at home?

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.

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>Plywood, bobbin sander, fret saw, coping saw, B-spline</p>	<p>Careers Links</p> <p>Product Design Manufacturing Engineering</p>
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