

Why do we learn Engineering?

By the time you leave Woodchurch High, as young Engineers we want you to have the skills and knowledge that you need to take the next step in your Engineering career. Our vision is to combine traditional Engineering skills in the workshop, alongside Modern design and Technological skills, by using CAD and CAM software.

Each year you will experience new skills so that you are fully prepared for college or an apprenticeship in any engineering field.

How do we learn in Engineering lessons?

Key Stage 3 - Is a carbon copy of what we offer at KS4.

Half Term 1 - Is based on designing and uses sketch up to solve a problem.

Half term 2 - Half term 4 - Is based on Manufacture. We focus on learning a range of skills, but all students manufacture the same product.


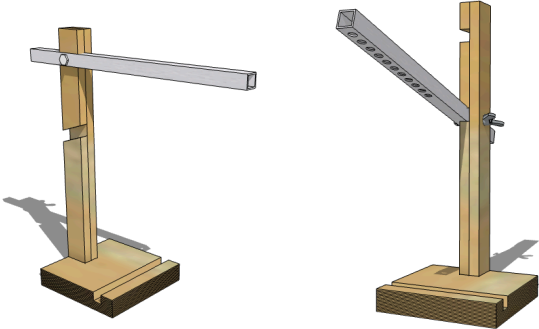
Term 3 - Is a recycle based community project, where we make a product that can be used in school (last year was sculptures based on birds)

At **Key Stage 4** we follow the learning programs of WJEC Level 1 / 2 Award in Engineering.

Students will start the Unit 1 - manufacture in Year 10 and complete sketch up parts and the write up until May 5th (submission date) After this date, students will practise sketch up skills and do revision in preparation for Unit 2 - Designing coursework in Year 11.

Students in Year 11 will complete the coursework up to Christmas and then, revision 1 lesson a week and 1 lesson of coursework after.

What do we learn in Food Technology lessons?

<p>Year 9</p>	<p>For today's engineers, hands on workshop skills are important, however the ability to use Computer Aided Design and Manufacture is a vital skill in all sorts of engineering industries. In Year 9 you will be introduced to this vital skill as well as get the chance to master your practical skills once more in the workshop.</p>   <p>Community Project - TBA</p>		
	<p>Autumn</p>	<p>Spring</p>	<p>Summer</p>
<p>Year 10 Theory</p>	<p>Machines, Tools, Processes. (Completed during the manufacturing process)</p>	<p>CAD / CAM (Completed during the manufacturing process)</p>	<p>Materials, Properties, Environment.</p>
<p>Year 10 Practical</p>	<p>All students work on NEA - Unit 1 - Manufacturing (40%) Submitted in the same year.</p> <p>Manufacture Individual parts - Write up lessons once a week and practical 1 lesson a week.</p> <p>All students create the same product agreed by the exam board.</p> <p>Sketch up designs completed for laser cut and 3D printed parts.</p>		
<p>Year 11</p>	<p>NEA - Unit 2 - Designing (20%)</p>	<p>Revision and Unit 2</p>	<p>Revision</p>
<p>Year 11 Practical</p>	<p>N/a</p>		