

<p>Subject</p>	<p><u>DESIGN AND TECHNOLOGY</u></p> <p>The Design and Technology Department provides an environment where students are encouraged to work independently and collaboratively, developing an open-minded attitude towards different forms of expression.</p> <p>Staff are passionate and enthusiastic with a variety of expert skills and industry experiences. This allows for a unique, varied and exciting curriculum that equips students with the skills, techniques, knowledge and understanding to produce work to the best of their individual abilities.</p> <p>Design and Technology is a centre of innovation, creativity and craftsmanship where students thrive, expressing their individuality and originality. We offer a range of different subject specialisms which each have separate skills and challenges. We are a dedicated team that is committed to supporting student progress across all abilities and age ranges.</p> <p>Alongside outstanding teaching and learning, students benefit from having access to the latest technology including CAD and laser cutter machines.</p>
<p>Curriculum intent</p>	<p>Students follow a Quality Curriculum within Design and Technology. The main objective is to ensure that all students possess the key subject specific skills needed for success at GCSE by the end of Year 9.</p> <p>Schemes of work and assessment procedures ensure that all students are sufficiently challenged according to their starting points and grasp the key concepts needed for high-level success at GCSE, BTEC and beyond.</p>
<p>Key Stage 3</p>	<p><u>Design and Technology</u></p> <p>Students have a separate design and technology lesson where they complete a carousel of projects working in each of the following areas twice over the three year period:</p> <ul style="list-style-type: none"> ● Food Technology ● Product Design ● Resistant Materials <p>Examples of projects completed in Key stage 3 include Wood Joints, Desk Organiser, Electronic Amplifier, Lamp Project, Shop Fronts and Window Frame projects. Students also complete learning cycles in food technology during Key stage 3 where learning cycles include topics such as healthy eating, food hygiene, international foods all with an emphasis on developing practical skills and techniques.</p> <p>Students learn a range of practical skills as well as having a theoretical content. These skills include:</p> <ul style="list-style-type: none"> ● exploring and analysing the work of others ● generating ideas using a range of information sources and drawing techniques ● developing and modelling ideas in order to meet a client's specification

- planning time needed to complete a task
- realising design ideas and making high quality products
- evaluating their own ideas and products to make judgements about the originality of design ideas and quality of solutions.

Key Stage 4

WJEC Level 1/ Level 2 Hospitality and Catering

This course concentrates on the hospitality and catering industry. You will develop the knowledge and understanding related to a range of hospitality and catering providers; how they operate and what they have to take into account to be successful. You will have the opportunity to learn about issues related to nutrition and food safety and how they affect successful hospitality and catering operations. In this qualification, you will also develop food preparation and cooking skills as well as transferable skills of problem solving, organisation and time

You will learn about the hospitality and catering industry by completing lots of practical work to learn new skills with weekly practical lessons. Therefore, it is essential that you are prepared to bring ingredients at least once a week

ASSESSMENT

Unit 1 (40%): The Hospitality and Catering Industry will be externally assessed with an on line examination that lasts 90 minutes. You will be graded as follows:

Unit 2 (60%): Hospitality and Catering in Action is internally assessed: This involves you completing a piece of controlled assessment in school under examination conditions. You will be set a task by WJEC and will have to safely plan, prepare, cook and present dishes to satisfy the task.

Grading: Level 1 Pass, Level 2 Pass, Level 2 Merit, Level 2 Distinction

Pearson BTEC Level 1/Level 2 First Award in Construction and the Built Environment

What does the qualification cover?

This course allows you to study construction and the built environment, giving you

the opportunity to gain a broad knowledge and understanding of the industry.

You will develop skills such as interpreting and analysing information, identifying the infrastructure required for safe and efficient work and in understanding how client needs can shape building design.

The qualification is 120 GLH, which is the same size and level as a GCSE, is aimed at everyone who wants to find out more about construction and the built environment.

It gives you the opportunity to learn about one of the most important sectors of the UK economy.

	<p>You will study three mandatory units, covering the fundamental knowledge, skills and understanding required construction technology and design:</p> <ul style="list-style-type: none"> ● construction technology ● construction and design ● scientific and mathematical application for construction. <p>You will build on the knowledge gained in the mandatory units by choosing one out of six further optional units. This will provide you with an opportunity to develop a wider understanding and appreciation of a specific aspect of the construction industry, depending on your interests. The areas covered are:</p> <ul style="list-style-type: none"> ● construction drawing techniques ● exploring carpentry and joinery principles and techniques ● exploring brickwork ● exploring painting ● exploring plumbing principles and techniques ● exploring electrical principles and techniques. <p>How will I be assessed?</p> <p>You will carry out tasks/assignments throughout the course. Your teacher will mark these, and so you will receive feedback as to how you are getting on.</p> <p>For the assessment for <i>Unit 3: Construction and Design</i>, you will be able to draw on the knowledge, skills and understanding you have developed in the qualification as a whole.</p> <p>The assessment for <i>Unit 1: Construction Technology</i>, is a test which is sent away to be marked.</p> <p>Where will this take me?</p> <p>This qualification enables you to develop a theoretical and practical knowledge of the built environment alongside some practical skills. It enables you to engage with the mathematical and scientific principles that underpin the construction industry, and to explore the impact of design through research and the application of your own ideas in response to a design brief. It also allows you to progress to further study at level 3 of academic and/or vocational qualifications in construction and the built environment, engineering or design, and to apprenticeships.</p>
<p>Key Stage 5</p>	<p><u>WJEC Level 3 qualifications in Professional Construction Practice is to:</u> Give learners an understanding and skills associated with the construction industry. They will provide a broad basis for further or higher education or for moving into employment within the construction industry. The new qualifications will be built on the firm foundation of the CITB standards and reflect the three themes of Design, Create and Value & Use, alongside Building Information Modelling, all set within contemporary built environment contexts. WJEC Level 3 in Professional Construction Practice will be made up of a</p>

Diploma which is equivalent to one A level.

What you will study

There are four units you will study over the course of the two years they are:

- Design the Built Environment
- Create the Built Environment
- Value and use the Built Environment
- BIM and Construction Projects.

How you will be Assessed

WJEC Level 3 Diploma in Construction Management (360 GLH)

UNIT 1,2,3 are worth 20 marks each and Unit 4 is worth 40 marks and is presented in a dissertation format from all of the three units learned over the two years.