

CONSTRUCTION

YEAR 11

AUTUMN 1

<p><u>First Electrical Fix</u> Students will study how a fist fix is installed in a house build and will carry out the installation of a light switch on their model stud wall. Connections will be wired correctly to industry standards and the switch secured to the wall.</p>	<p>Students will demonstrate their ability to read a technical drawing and convert that into a physical reality. They will also demonstrate and evidence their ability to select appropriate tools for each task. They will learn how to use tools correctly.</p>	<p>Prior Learning Practical skills developed in workshop through KS3 DT lessons. Use of hand tools, measure, finishing techniques.</p>
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AUTUMN 2

<p><u>Painting and Decorating</u> Students will learn to fill & prepare surfaces, paint with brush and roller, apply decorators caulk, emulsion and gloss paints. They will recognise the need for different cleaning methods of emulsion and gloss brushes, and learn to dispose of waste materials in an appropriate fashion. Students will need to learn how to use masking and cutting in methods of applying paint.</p>	<p>Students will photograph work and present written evidence developing Google Slide skills throughout.</p>	<p>Prior Learning No specific prior knowledge of P&D is expected but use of skills developed in the workshop will be useful. Any finishing techniques developed across DT experiences.</p>
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SPRING 1

<p><u>Unit 2 Evidence Production</u> Students will use Google Classroom/Slides/Drive to build and on line portfolio of their skills. Completion of all Unit 2 coursework is due for February half term break.</p>	<p>Students produce skills evidence for unit 2 using photography & Google Slides under assessment conditions. Students will assess their own performance against WJEC set criteria/standards as part of the evaluation process. Students will recognise the criteria for Pass/Merit/Distinction levels and know acceptable tolerances.</p>	<p>Prior Learning IT skills, use of Google Classroom, Google Slides and digital photography.</p>
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SPRING 2

<p><u>Unit 3 Building Types, Requirements and Materials</u> Students will learn the different construction problems that different types of building present. They will learn how the industry navigates these issues through the use of different materials and construction techniques.</p>	<p>Students will present their work and research in an interactive slide show comprising of written word, images, answers to questions and video clips.</p>	<p>Prior Learning Knowledge of the building process from observations, family connections, own experiences of any construction work. Use of Gantt charts in other subject areas.</p>
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SUMMER 1

<p><u>Unit 3 Project Planning Gantt Charts and Quantity Surveying</u> Students will learn to plan projects through the use of Gantt charts. They will understand the use of mathematics in working out quantities of materials and costings for projects. They will learn how a quantity surveyor and project manager work together to ensure the completion of a construction project.</p>	<p><u>Exam prep and mock examination</u> Students will be entered for the Unit 3 exam at the end of Year 11 & will re-sit Unit 1 H&S in Y11 if they did not achieve their expected grade in Y10.</p>	<p>Prior Learning Roles within the construction industry and on site. How these roles work together in a planned and organised fashion from start of project to finish all controlled</p>
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SUMMER 2

<p>Exam Preparation & Revision for Unit 1 & Unit 3 examinations. Past paper practice, revision materials production, quizzes etc.</p>	<p><u>WJEC</u> <u>UNIT 1 H&S EXAM</u></p>	<p><u>WJEC</u> <u>UNIT 1 H&S EXAM</u></p>	<p>Prior Learning All materials produced in Y10 & Y11 will be used for revision purposes. Students will work from 2 presentations and past exam papers to prepare for exams.</p>
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CAREERS LINKS

Joinery, carpentry, plasterer. wall/floor tiling, plumbing, kitchen & bathroom fitting. Pathways to higher/further education. Local colleges and apprenticeship applications. Architecture, planning officer, project manager, site manager. Health and safety officer, roles within the HSE, law, site management. Quantity surveyor, project management, materials supply, finance/budget control.

CHARACTER LINKS

Performance virtues of teamwork, resilience, perseverance and confidence are fostered when students are working with materials, tools and processes they may not have experienced before. Intellectual virtues of judgement, curiosity and reasoning are vital when completing the practical elements of this qualification.

KEY ASSESSMENT DATES

Y11 will complete practical assessments before February half term and spend the rest of Y11 preparing for the Unit 3 'planning construction projects' exam in the Summer term.