

CONSTRUCTION

YEAR 10

AUTUMN 1

<p><u>Stud Wall / Joinery</u> Students will learn to cut and join timber with screws to build the frame of an 800x800 stud wall using 400 centres.</p>	<p><u>Plaster board.</u> Students will develop dry walling skills to fit plasterboard to a stud wall. Students will use score and snap cutting methods.</p>	<p><u>Carpentry</u> Students will use traditional wood working joints (mitre or lap) to frame their wall using door carcass & frame techniques.</p>	<p><u>Google Slides</u> Students will photograph work and present written evidence developing google slides skills throughout.</p>	<p>Prior Learning Practical skills developed in workshop through KS3 DT lessons. Use of hand tools, measure, joining and cutting techniques. Students produce 800x800 stud wall.</p>
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AUTUMN 2

<p><u>Wall Tiling</u> Students will learn to set out, prepare surfaces, cut and pattern, space and grout wall tiles using ready mix adhesive. Students will use manual tile cutters and electrical tile cutting machinery, they will learn to select and use appropriate tools for each cut.</p>	<p><u>Drawings</u> 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 No specific prior knowledge of wall tiling but use of skills developed in the joinery unit is useful. Use of measure, spirit level, tri-square and marking out techniques.</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 so far. Up to and including page 11 of the online writing frame provided.</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 The building process</u> Students will learn the sequence of house building from excavation, utilities, foundations, walls, roofs, plumbing, electrical, to painting and decorating etc.</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. The presentation will form revision materials for the end of Y11 unit 3 examination – planning building projects.</p>	<p>Prior Learning Knowledge of the building process from observations, family connections, own experiences of construction work. Use of Gantt charts in other subject areas.</p>
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SUMMER 1

<p><u>Unit 1 Health and Safety within Construction</u> Students will study relevant H&S legislation, they will be able to risk assess and suggest solutions to minimise risk on site. They will recognise and use industry standard H&S signs. They will recognise different types of fire extinguisher, substances hazardous to health and how to use appropriate PPE.</p>	<p><u>Exam prep and mock examination</u> Students will be entered for the Unit 1 exam at the end of Year 10 & will re-sit in Y11 if they do not achieve their expected grade.</p>	<p>Prior Learning Knowledge of health and safety law around school and in any environment students attend outside school. Common sense in any working environment.</p>
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SUMMER 2

<p><u>Unit 3 Jobs and Roles within Construction</u> Students will produce a list of jobs and roles found on a construction project from the design and planning to the supply of materials and the physical construction work. They will explain the job role and demonstrate knowledge of hierarchy using a schematic diagram. They will study the academic requirements for each role and learn how to access these opportunities in the future.</p>	<p><u>WJEC UNIT 1 H&S EXAM</u></p>	<p>Prior Learning Knowledge of jobs and work places of relatives/ friends explored. Research of local colleges and routes in to further education.</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

Y10 will sit the Unit 1 health and safety exam in the summer exam season. They will also complete 50% of the practical skills assessment in Unit 2 by the end of the year.