

KS4 Construction BTEC Curriculum Map

	<u>Content</u>	<u>Assessment</u>
<p><u>Term 1</u></p>	<p style="text-align: center;"><u>Unit 7 (First half)</u> <u>Exploring Brickwork and</u> <u>Blockwork Principles and</u> <u>Techniques</u></p> <p>Practical brick and blockwork</p> <ul style="list-style-type: none"> • Stretcher bond • English bond • Flemish bond <p style="text-align: center;"><u>Unit 2 (First half)</u> <u>Construction and Design</u></p> <p>Assignment 1 The Scale and Importance of the Construction Industry</p>	<p>All of unit 7 is coursework and assessed/verified internally and then externally moderated via sampling.</p> <p>Practical tasks are observed, measured and assessed. Assessment to include photographic evidence.</p> <p>Assignment internally assessed and graded</p> <ul style="list-style-type: none"> • Pass (C) • Merit (B) • Distinction (A)
<p><u>Term 2</u></p>	<p style="text-align: center;"><u>Unit 7 (Second half)</u> <u>Exploring Brickwork and</u> <u>Blockwork Principles and</u> <u>Techniques</u></p> <p>Practical brick and blockwork</p> <ul style="list-style-type: none"> • Stretcher bond • English bond • Flemish bond • Cavity Wall <p>Final project-safely completing the construction of a cavity wall</p> <p style="text-align: center;"><u>Unit 2 (Second half)</u> <u>Construction and Design</u></p> <p>Assignment 2 Designing Buildings that Meet the Needs of the Client</p>	<p>Final practical assessment to include the construction of a cavity wall 7 bricks wide and 9 courses high. Verification and readings for size, plane face deviation and plumb tolerances.</p> <p>Assignment internally assessed and graded As with Assignment 1.</p>

<p><u>Term 3</u></p>	<p style="text-align: center;"><u>Unit 6 (First half)</u> <u>Exploring Carpentry and Joinery Principles and Techniques.</u></p> <ul style="list-style-type: none"> • Tools, materials and equipment used in Carpentry and Joinery • Safe use and storage of carpentry and joinery tools, materials and equipment <p style="text-align: center;"><u>Unit 3 (First half)</u> <u>Scientific and Mathematical Applications for Construction</u></p> <ul style="list-style-type: none"> • Effect of forces • Changes of temperature 	<p>All of unit 6 is coursework and assessed/verified internally and then externally moderated via sampling.</p> <p>Practical tasks are observed, measured and assessed. Assessment to include photographic evidence and observation records.</p> <p style="text-align: center;">Assignment 1 – The Use of Science in Construction</p>
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<p><u>Term 4</u></p>	<p style="text-align: center;"><u>Unit 6 (Second half)</u> <u>Exploring Carpentry and Joinery Principles and Techniques.</u></p> <ul style="list-style-type: none"> • Health and safety • Construction of timber frames <p style="text-align: center;"><u>Unit 3 (Second half)</u> <u>Scientific and Mathematical Applications for Construction</u></p> <ul style="list-style-type: none"> • Algebraic and graphical methods • Mensuration • Trigonometry 	<p>All of unit 6 is coursework and assessed/verified internally and then externally moderated via sampling.</p> <p>Practical tasks are observed, measured and assessed. Assessment to include photographic evidence and observation records.</p> <p style="text-align: center;">Assignment 2 – The Use of Mathematics in Construction</p>
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<p><u>Term 5</u></p>	<p style="text-align: center;"><u>Unit 1 (First half)</u> <u>Construction Technology</u></p> <ul style="list-style-type: none"> • Building performance Requirements • Strength and Stability • Fire Resistance • Thermal Insulation • Sound Insulation • Weather Resistance • Sustainability <p style="text-align: center;"><u>Unit 1 (Second half)</u> <u>Construction Technology</u> <u>15 hours</u></p> <ul style="list-style-type: none"> • Common construction forms for low rise construction • Preconstruction work • Sub-structures –walls, floors, roofs • 	<p style="text-align: center;">Externally assessed via examination</p>
<p><u>Term 6</u></p>	<p style="text-align: center;"><u>Revision</u></p> <p style="text-align: center;"><u>Unit 1 – Construction Technolgy</u></p>	

Homework

Extended study project on sustainability. 20 x sustainable techniques described and illustrated.

Study of local landmark structures – identification of sustainable features, brick, block and stonework techniques – to include photographic evidence to illustrate project.

Research projects on 6 topics;

- Skyscrapers
- Iconic structures
- Famous British Structures
- Super Structures
- Bridges
- Sports Stadiums

