

Subject: Yr10&11 Tech-Award Construction level 1/2

Date	Outline of Teaching Focus	Links to Prior Learning/Interleaving	Links to Functional Skills	Pre, Way Point and End Point Assessments All assessments will be differentiated to match the Students FS exam.	CORE Links Respect Honesty Trust Integrity Kindness	Opportunities for Development in Cultural Capital	Links to Therapeutic Provision
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KS4 Long Term Plan

<p><u>Autumn 1 (7 Weeks)</u></p>	<p>Course explanation – Take Students through all three components of course, how they are assessed and expectations for grading. Identify long term objective of course and PS16 opportunities (Incl Careers)</p> <p>Component 1 Construction technology Objective A Low Rise Construction requirements. Students will work through gaining, digesting and understating the following theory topics:</p> <ul style="list-style-type: none"> • Performance requirements of Buildings • Structural load • Strength and stability • Specification of materials • Fire protection • Thermal insulation and retention. <p>Students will also complete a series of practical tasters with emphasis around the 2 available topics for Components 2 (Joinery and Bricklaying) Tasters will also take place around Plumbing and Plastering. During this time students will be introduced to the concept of basic site Health and Safety along with PPE</p>	<p>Component 1 will provide the foundation knowledge required for Component 3. Students will understand basic structural requirements</p> <p>Although not starting Component 2 Learning Outcome A (Risk Assessment) foundations will be laid such as <i>Hazard identification, people at risk, control measures</i> and <i>PPE</i></p>	<p>All elements will link to English reading – students will be required to identify key information through reading.</p> <p>All elements will relate to Mathematics – Area shape and space. Mathematical processes weight and measures</p>	<p>Pre assessment Discussions held to identify any prior learning or practical experience in construction related activities</p> <p>Basic quiz to baseline knowledge</p> <p>Way Point Quizzes used as starters for lessons to revisit previously learnt lesson.</p> <p>End assessment Students will undertake an end of module exam in the format of their final assessment exam for Component 1. A range of questions will be covered which are all derived from the terms learning.</p>	<p>All aspects of CORE will be visited through discussions around trade integrity and liability.</p> <p>Will be further reinforced through the Health and Safety aspects relating to respect, trust and integrity.</p> <p>Kindness will be explored during collaborative learning and team activities.</p>	<p>Speakers from the industry could provide talks on various aspects of the building trades.</p> <p><i>Open Doors</i> run site visits during Autumn which will be applied for. This will give students the opportunity to visit working building sites. Students will get the opportunity to complete another visit in year 11.</p>	
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KS4 Long Term Plan

<p><u>Autumn 2 (8 Weeks)</u></p>	<p>Component 1 Objective A1/A2/A3. Students will continue to work through the theory elements.</p> <p>Objective A1 (Low-rise Construction requirements) continued</p> <ul style="list-style-type: none"> • Sound insulation and control. • Water damage protection <p>Objective A2 sustainability</p> <ul style="list-style-type: none"> • Purpose of Sustainable construction • How to achieve sustainable construction • Benefits and drawbacks <p>Objective A3 Common Structural Forms for Low Rise Construction</p> <ul style="list-style-type: none"> • Structural forms <p>Component 2 Learning objective A1 Be able to understand hazards and risks for safe production of a practical outcome</p> <ul style="list-style-type: none"> • Risk Assessments • Hazard identification • Risk Rating • People at risk • Control measures • PPE • Recording and reviewing 	<p>The principles of sound insulation relate to thermal insulation</p> <p>Component A2 will interleave with <i>Health Safety and Environmental studies</i> covering the same content.</p>	<p>All elements will link to English reading – students will be required to identify key information through reading.</p> <p>All elements will relate to Mathematics – including area shape and space. Mathematical processes.</p>	<p>Pre assessment Mix and match cards to test understanding of insulators</p> <p>Way Point Quizzes used as starters for lessons to revisit previously learnt lesson.</p> <p>End assessment Students will undertake an end of module exam in the form of their final assessment exam for Component 1. A range of questions will be covered which are all derived from the terms learning.</p> <p>Component 2 will be assessed through a marked workbook ascertaining students understanding on the topics visited.</p>	<p>All aspects of CORE will be visited through discussions around trade integrity and liability.</p> <p>Will be further reinforced through the Health and Safety aspects relating to respect, trust and integrity.</p> <p>Kindness will be explored during collaborative learning and team activities.</p>	<p>Potential visit to Sustainable buildings eg Leicester Eco House.</p> <p>Contact Lee Jowett at Leicester Sustainable Schools. – provides additional resources and visit suggestions relating to A2</p>	
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CHRISTMAS HOLIDAYS

KS4 Long Term Plan

<p>Spring 1 (6 Weeks)</p>	<p>Component 1 Students will continue to work through the theory elements.</p> <p>Objective B Explore how Substructures are constructed</p> <p>B1 Preconstruction Work</p> <ul style="list-style-type: none"> Identify the Desk Based preconstruction work required. Understand the Site-based preconstruction work <p>B2 Substructure groundwork Students will continue to work through the theory elements.</p> <ul style="list-style-type: none"> Hazards and risk associated with groundworks How groundworks are constructed Construction detailing of foundations and sub-structures Benefits and drawbacks of foundations and sub-structures Be able to sketch and annotate sub-structures <p>Component 2 A3 Tools and Materials</p> <ul style="list-style-type: none"> Students gain and understanding of the different tools and materials specific to their chosen trade. 	<p>Obective B1/B2 will be heavily interleaved with the learning required for <i>Health Safety and Environmental</i> qualification. The learning taking place will form some of the required understanding, this will be readdressed towards the end of KS4</p> <p>Elements of B2 feed into Component 3 where students are expected to be able to sketch substructures. This will aid in developing their drawing skills</p> <p>All parts of Component A3 link to A1 – Risk assessments and dynamic risk assessment. This will be reinforced all through the practical element.</p>	<p>All elements will link to English reading – students will be required to identify key information through reading.</p> <p>All elements will relate to Mathematics – area shape and space.</p>	<p>Pre assessment Think pair share discussion around elements of building sites. (B1 Spot the hazard activity B2</p> <p>Way Point</p> <p>End assessment Students will undertake an end of module exam in the form of their final assessment exam for Component 1. A range of questions will be covered which are all derived from the terms learning.</p>	<p>All aspects of CORE will be visited through discussions around trade integrity and liability.</p> <p>Will be further reinforced through the Health and Safety aspects relating to respect, trust and integrity.</p> <p>Kindness will be explored during collaborative learning and team activities.</p>	<p>Visit or discussion from industry experts, EG site manager.</p> <p>Industry expert (EG Stew Crompton visit and demonstration.</p>	
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KS4 Long Term Plan

	<ul style="list-style-type: none"> Students start to practice using tools for chosen trade correctly and safely 	This will also start to introduce B1 as Students will complete basic jointing.					
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<p>Spring 2 (5 Weeks)</p>	<p>Component 1 Students will continue to work through the theory elements.</p> <p>Objective C Explore how superstructures are constructed</p> <p>C1 Superstructures – Walls</p> <ul style="list-style-type: none"> • Understand function and features of different walls • Benefits and drawbacks for architects, builders and users of above • Be able to sketch different types and features of walls <p>C2 Superstructures – Floors</p> <ul style="list-style-type: none"> • Understand the function construction and detailing of floors <p>Component 2 objective B able to produce a practical construction outcome.</p> <p>B1 Jointing and Incorporation of materials</p> <ul style="list-style-type: none"> • Students will focus on types of joining of materials. • Students will focus on fixings/fittings/joint types. 	<p>Elements of C1 feed into Component 3 where students are expected to be able to sketch substructures. This will aid in developing their drawing skills</p> <p>Component will link to skills built in Art and Design curriculum. Links made to Component 2 wall construction.</p> <p>During this unit, Students will continue to recall tools and materials cementing learning. A3 They will start to be introduced to A2 Measuring and marking out. A1 will also continue to be embedded and solidified.</p>	<p>All elements will link to English reading – students will be required to identify key information through reading.</p> <p>All elements will relate to Mathematics – area shape and space.</p>	<p>Pre assessment mix and match exercise identifying and linking wall type with definitions/description</p> <p>Way Point Produce labelled sketches for each wall type when provided with name only.</p> <p>End assessment Students will undertake an end of module exam in the form of their final assessment exam for Component 1. A range of questions will be covered which are all derived from the terms learning.</p>	<p>All aspects of CORE will be visited through discussions around trade integrity and liability.</p> <p>Will be further reinforced through the Health and Safety aspects relating to respect, trust and integrity.</p> <p>Kindness will be explored during collaborative learning and team activities.</p>	<p>Construction site visit highlighting superstructure elements.</p>	
<p>EASTER HOLIDAYS</p>							

<p>Summer 1 (5 weeks)</p>	<p>Component 1 Students will continue to work through the theory elements.</p> <p>Objective C Explore how superstructures are constructed C3 – Superstructures – Roofs</p> <ul style="list-style-type: none"> Understand the function, construction and detailing of roofs Be able to sketch and annotate types and detailing. <p>Component 2 Outcome A2 Measuring Marking and setting out (Brick and Join) Develop knowledge and understanding of different marking and measuring tools</p> <ul style="list-style-type: none"> Students will focus on measuring, marking and planning. Reading and interpretation of drawings 	<p>Elements of C1 feed into Component 3 where students are expected to be able to sketch substructures. This will aid in developing their drawing skills</p> <p>Links with A3 as Students will continue to repeat and solidify. B1 will be repetition and it will introduce elements B2 and B3 as accuracy will be of importance.</p> <p>Understanding drawings and being able to produce drawings will be linked to Component 3 Construction and Design.</p>	<p>All elements will link to English reading – students will be required to identify key information through reading.</p> <p>All elements will relate to Mathematics – area shape and space.</p>	<p>Pre Assessment mix and match exercise identifying and linking roof type with definitions/description</p> <p>Way Point Produce labelled sketches for each roof type when provided with name only.</p> <p>End Point Students will undertake an end of module exam in the form of their final assessment exam for Component 1. A range of questions will be covered which are all derived from the terms learning.</p>	<p>All aspects of CORE will be visited through discussions around trade integrity and liability.</p> <p>Will be further reinforced through the Health and Safety aspects relating to respect, trust and integrity.</p> <p>Kindness will be explored during collaborative learning and team activities.</p>	<p>Construction site visit highlighting superstructure elements.</p>	
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KS4 Long Term Plan

Spring 1	Component 3 Construction and Design Objective A1 – Understand the needs of a client and construct a design when designing a low rise building. Specifically <ul style="list-style-type: none"> Accommodation Style and aesthetics Sustainability Objective A2 Constraints on design <ul style="list-style-type: none"> Budget Site 	<p>This component links back to Component 1 A1 and A2. The theory learnt links in directly.</p>	<p>All elements will link to English reading – students will be required to identify key information through reading and interpreting images. Students will need to write concisely write information.</p> <p>Maths – Area shape and space. Money management</p>	<p>Pre assessment Provide an example text asking students to pick out key information.</p> <p>Way Point .</p> <p>End Point End point assessment style questions</p>	<p>All aspects of CORE will be visited through discussions around trade integrity and liability.</p> <p>Will be further reinforced through the Health and Safety aspects relating to respect, trust and integrity.</p> <p>Kindness will be explored during collaborative learning and team activities.</p>		
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Summer 1	<p>Component 3 Construction and Design Outcome B: Be able to graphically communicate the design of a low-rise building</p> <p>B1 - Development of sketch techniques</p> <ul style="list-style-type: none"> • floor plans to approximate scale • External Views using 3D sketching techniques <p>B2 Generation of sketch ideas in response to client needs</p> <ul style="list-style-type: none"> • Design of attractive aesthetically pleasing structures and buildings • Concept ideas for external appearance • Concept for internal layout • Annotations and labelling 	<p>This component links back to Component 1 A, B and C. Students will have practiced sketching some elements.</p>	<p>English – annotating and labelling elements</p> <p>Maths – Area shape and space. Budgeting and time scales</p>	<p>Pre assessment List and attempt as many different ways of drawing a building as possible</p> <p>Way Point Build portfolio of examples</p> <p>End Point Students generate sketches based on a brief (exam style)</p>	<p>All aspects of CORE will be visited through discussions around trade integrity and liability.</p> <p>Will be further reinforced through the Health and Safety aspects relating to respect, trust and integrity.</p> <p>Kindness will be explored during collaborative learning and team activities.</p>		
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KS4 Long Term Plan

<u>Summer 2</u>	Component 3 Construction and Design Opportunity for students to draw in all elements of component 3 together and practice. Students will be presented with scenarios before completing the final assessment	All elements of Component 1 and 3 will link in with the final terms practice and revision.	English – annotating and labelling elements Maths – Area shape and space. Budgeting and time scales	Pre assessment Exam style question. Way Point - End Point Pearson's issued assessed assignment	All aspects of CORE will be visited through discussions around trade integrity and liability. Will be further reinforced through the Health and Safety aspects relating to respect, trust and integrity. Kindness will be explored during collaborative learning and team activities.		
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