

2019 L.C Construction Studies Portfolio Checklist (Total 15%)

<p><u>Page 1:</u></p> <ul style="list-style-type: none"> • Front cover (see-through plastic with cover page underneath), • The front cover should have these details: • The title of the project (house name), • A picture or sketch or photo, • Your exam number. 	<p><u>Page 2</u></p> <ul style="list-style-type: none"> • Acknowledgement - thank your parents for putting up with you, <p><u>Page 3</u></p> <ul style="list-style-type: none"> • Table of contents, • Chapter one, • Chapter two... and so on to chapter eight, • Back cover (card). <p>Your report should have 8 chapters</p>
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Chapter One	Introduction	
<p>1. What is the overall Aim of the Project?</p>	<p>(remember your focus for the project is now on the redesign of the home. Ie adding the extensions)</p> <p>i) Describe the Aim of your Project ie... to redesign the internal and external envelope of my home, expand further...</p> <p>Aim needs to link to the objectives in the next heading</p>	<p><u>Do I have? Text?</u></p>
<p>2. Objectives/Design Considerations</p>	<p>ii) Discuss three detailed design consideration/objectives that your project must meet. Ie... The extension should have a link to the rear garden to improve the Health and Wellbeing of the occupants.. The design considerations need to be very clear and detailed. They should expand on the aim.</p>	<p><u>Do I have? Text?</u></p>

<p>3. Original Build</p>	<ul style="list-style-type: none"> i) Describe your house in simple terms... mention the type of house, its general location (i.e. rural/ urban) and the scale of the model. (1:50 or 1:100) ii) Why do you want to redesign your home? iii) Main issues with the design of the building? Ie.. ensure the link to your aim and objectives iv) Does the project have a personal significance for you? v) Is it a building you enjoy being in? 	<p><u>Do I have?</u> <u>Text?</u></p>
<p>4. Background of the building...</p>	<ul style="list-style-type: none"> i) History of the building... how it has been used over the years, ii) Significance of the building to the locality/community, iii) Architectural style, (Modern) materials used (All materials used to build it, concrete, cement etc.) iv) Describe the main elements of the building, adaptations/extensions made... Don't go into the structural details (e.g. cavity walls, traditional cut roof, etc.) - that comes later. 	<p><u>Do I have?</u> <u>Text?</u></p>

<p>Chapter Two:</p> <ol style="list-style-type: none"> 1. A list of each stage of Planning 2. A Spreadsheet 3. Gathering information: 	<p>Planning and Research</p> <p>Explain each stage in detail, Describe exactly how you created your portfolio and made your model house) Remember nothing has been made at this stage!!</p> <ol style="list-style-type: none"> i) Research ii) Drawing plans iii) Marking out iv) Making parts v) Assembly vi) Finishing <ol style="list-style-type: none"> i) The time goes across the top of the spread sheet - each week should have three boxes - each box represents one hour of work, ii) The above list of stages should be broken down into smaller steps - these go along the left side of the spread sheet, iii) Show clearly how many hours are to be spent on each stage. <ol style="list-style-type: none"> i) Include all material recorded/collected during research phase (e.g. original planning application, original architect's drawings, records of invoices etc.), ii) Describe your site visit, iii) Include photos of the building, and a 3D sketch of Home, iv) Transcribe the notes taken during interviews with the owner/ architect/ builder, 	<p><u>Do I have?</u> Text?</p> <p><u>Do I have?</u> A spreadsheet made on Excel?</p> <p><u>Do I have?</u> Text? Original Drawings? Planning Applications Invoices? An Interview? Photos of House? Sketches? References for Books?</p>
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Chapter Three	Initial Ideas and Final Design	<u>Do I have?</u>
1. Initial Idea 1	<p><u>3D Sketch and Plan view</u> Justification of how this design meets the objectives and which areas of the design doesn't meet the objectives</p>	<p>Text? Sketch? 3D Sketch? Plan view?</p>
2. Initial Idea 2	<p><u>3D Sketch and Plan view</u> Justification of how this design meets the objectives and which areas of the design doesn't meet the objectives</p>	<p><u>Do I have?</u> Text? Sketch? 3D Sketch? Plan view?</p>
3. Initial Idea 3	<p><u>3D Sketch and Plan view</u> Justification of how this design meets the objectives and which areas of the design doesn't meet the objectives</p>	<p><u>Do I have?</u></p>
4. Final Design	<p><u>3D Sketch and Plan view</u> Justification of how the Final design meets all the objectives.</p> <p>Explain all steps needed to add the new extension to the original build ie.. opening needs to be created in the south facing wall to allow for an open plan kitchen layout... At least six numbered points. Ie look at Question 3</p>	<p>Text? Sketch? 3D Sketch? Plan view?</p>
5. Preparation of Final Design Working Drawings	<p>You must prepare your own drawings (i.e. so essentially you are redrawing the original architect's drawings plus the addition of the extension). Draw them to a suitable scale (e.g. 1:100 / 1:50) like your model.</p> <p>i) Front elevation, ii) Rear elevation, iii) 2 End elevations, iv) Floor plans (view from above)</p>	<p><u>Do I have?</u> Text? Sketch? 3D Sketch? Plan view?</p> <p><u>Do you have?</u> Working Drawings? At least three Measurements on each view? Full size measurements not scale?</p>

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Chapter Four	Research of New Build <i>(Pick only 3 relevant areas to research)</i>	<u>Do I have?</u> Text? Images? Architectural Drawings? Sketches? References?
1. Foundations	sketch and explain what type of foundation will be layed (describe the type of soil in the area),	
2. External Walls	sketch and describe the type of wall and amount of insulation will be used,	<u>Do I have?</u> Text? Images? Architectural Drawings? Sketches? References?
3. Roof	sketch and describe the structure type and materials that will be used (incl. fascia/soffits),	<u>Do I have?</u> Text? Images? Architectural Drawings? Sketches? References?
4. Floors	sketch and describe the type and materials that will be used,	<u>Do I have?</u> Text? Images? Architectural Drawings? Sketches? References?
5. Windows	sketch and describe the type and materials that will be used	<u>Do I have?</u> Text? Images? Architectural Drawings? Sketches? References?
6. Doors	sketch and describe the type and materials that will be used	<u>Do I have?</u> Text? Images? Architectural Drawings? Sketches? References?
7. Stairs	sketch and describe the type and materials used,	<u>Do I have?</u> Text? Images? Architectural Drawings? Sketches? References?

<p>Chapter Five</p> <p>Use of models/practice pieces</p> <p>Have I at least 50 images?</p> <p>Have I described exactly what I am doing in each image?</p> <p>Have I at least two images per page?</p> <p>Have I my images in order?</p> <p>Starting from Marking out to Landscaping?</p>	<p>The Making Procedure</p> <p>i) Include photos/sketches of any practice work as part of your research ii) Did you practice a wall finish, for example? iii) Did you make a practice model of the windows of your model? iv) Include photos/sketches of any experimental work as part of your research v) Explain what you gained by making these practice elements</p> <p>Ensure to mention how to use each tool safely and ensure to mention some helpful tips</p>	<p>Do I have? Text? Images? Sketches?</p> <p>Do I have? Text? Images?</p>
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<p>Chapter Six</p> <p><u>1. Evaluate your planning and use of time</u></p> <p><u>2. Evaluate how well your project works (function)</u></p>	<p>Evaluation of Project</p> <p>i) Was the plan you made realistic? ii) What took longer than anticipated? iii) Why? – don't blame it all on your teacher!</p> <p>i) Ask yourself, is it a realistic and useful representation of the building? ii) Would it be useful from a design point of view? iii) What could be better? How could you have made it so?</p> <p>i) Is the scale good? Not too big/small? Does the size of</p>	<p>Do I have? Text?</p>
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<p><u>3. Evaluate your project's appearance</u></p>	<p>the model provide enough detail?</p> <p>ii) Is the proportion true? Did you put a toy car on the driveway that's way out of scale?</p> <p>iii) Does the model reflect the buildings feel? Would it give a client a good sense of what the built structure would be like?</p> <p>iv) How well built is it? Are the edges cut cleanly? Is there adhesive visible?</p> <p>v) Is the model solid and sturdy? Will it fall apart if the examiner picks it up?</p>	
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<p>Chapter Seven</p> <p><u>1. Skills:</u></p> <p><u>2. Knowledge:</u></p>	<p>Evaluation of Yourself</p> <p>i) What new skills did you learn during the course of the project? Machinery, tools, equipment, safety precautions.</p> <p>ii) What can you do now that you couldn't do before?</p> <p>iii) What have you learned about 'project management'? (time management, negotiating for the use of equipment, getting help when you need it, having the materials to hand when they are needed, staying productive during class, motivating yourself to keep working).</p> <p>i) What new knowledge did you acquire? Probably more than you realise – think</p>	<p><u>Do I have? Text?</u></p>
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<p><u>3. Yourself:</u></p> <p><u>4. What problems/difficulties did you encounter?</u></p> <p><u>5. Evaluate your evaluation</u></p>	<p>about it. ii) What do you know now that you didn't know before?</p> <p>i) What have you learned about yourself?</p> <p>ii) Do you work well independently or are you better when someone is pushing you?</p> <p>iii) Do you enjoy work on your own or are you better as part of a team?</p> <p>iv) Are you an organised person?</p> <p>v) When a block of granite is dropped in your path do you see it as a barrier or a stepping stone?</p> <p>How did you overcome them?</p> <p>How honestly and fairly and willingly did you assess your own performance? Could you have done better</p>	
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<p>Chapter 8</p> <p>write up three separate experiments that are relevant to your project in some way.</p> <p>1. Title of experiment: give the experiment a name that describes what it's about.</p> <p>2. Objective: what are you testing?</p> <p>3. Hypothesis: what do you expect to find?</p> <p>4. Procedure: what did you do? 1. describe step one... 2. describe step two... 3. describe step three... and so on.</p>	<p>Experiments</p>	<p><u>Do I have?</u></p> <p>Text?</p> <p>Images?</p> <p>Possible Graphs?</p>
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<p>5. Results: what did you find?</p> <p>EVIDENCE!!! It's very important to remember to include photographs taken while carrying out the experiment as evidence of the work completed.</p> <p>6. Conclusion: what did you learn?</p>		
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