



This pack contains three research activities for you to prepare for your Construction qualification in September. It is aimed to be used after you complete your GCSE Level 2 First Award, throughout the remainder of the summer term and over the Summer Holidays to ensure you are ready to start your course in September. The information provided in this pack is relevant to Unit 1 which after studying; you will undergo an internally assessed, controlled assignment.

**Overview**

**The construction sector is vital to any country for maintenance, improvement and growth of its infrastructure, buildings and engineering stock. A comprehension of institutional standards, procedures and business processes of the specialised disciplines that drive and administer the industry is relevant to all those who work or desire to be part of this established sector.**

**Studying this qualification will encourage research, prompt investigation and analysis of the aspects and impacts of the construction disciplines and their interrelationships through collaboration. This will give rise to an understanding of the diverse roles within the construction industry and yield transferable skills. The qualification will support your progression from level 1/2 particularly in subjects such as Design Technology, Construction, Engineering and Business Studies.**

Research questions.

1. The built environment is made up of historic and contemporary buildings, the spaces between them including parks, streets, other open areas and the infrastructure that links these components together. The design of each building within this environment is a complex process that involves many people working through many stages. Good design will provide a built environment that promotes health, safety and well-being.

Research areas locally that have undergone transformation or development. What is significant about the changes it has brought to the area?

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1. To provide and protect the quality of the built environment it is vital to ensure that the right development happens in the right place at the right time, to the benefit of communities and the economy. A complex system for the control of development has been created involving strategic planning at national and local levels and many other social, political and economic factors. This system must agree, on behalf of the community, to a development proposal before it can take place.

**Achieving planning permission requires:**

1. Interpreting local planning requirements and developing a strategy to achieve an acceptable design solution.
2. Identifying appropriate treatments of the design solution.
3. Identifying possible contributions and community benefits
4. Consider possible planning obligations.

Research planning requirements within a local development plan and evaluate factors that will affect the planning decisions for different development projects. A useful link is provided below; pay particular attention to sub-section 4.1.

<http://services.swale.gov.uk/media/files/localplan/adoptedlocalplanfinalwebversion.pdf>

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1. The design of the buildings that shape our environments must be influenced by many factors to promote the safety, health, comfort and productivity of occupants. These designs must be developed to minimise the risk of harm to those who have to build, use and maintain the building and ensure that the possibilities for reducing environmental impact and running costs of the building over its lifetime are maximised.

Report on measures put forward to enhance environmental efficiency during the concept design stage of a specific development proposal. You can choose any example of a low-rise construction project to make your report.

Environmental impact (BREEAM) <https://www.bregroup.com/expertise/sustainability/>

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The WJEC Level 3 Applied Diploma in Professional Construction Practice enables you to gain essential employability skills that are valued by employers, further education and higher education including:

• literacy and numeracy

• digital literacy

• critical thinking and problem solving

• planning and organisation

• creativity and innovation

• personal effectiveness.

Think about the subjects you have studied over the past three years. Have you already demonstrated these skills in other subjects? Give examples of where you feel you have developed these skills.

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**Key information about the qualification.**

The WJEC Level 3 Applied Diploma in Professional Construction Practice is made up of 4 units. All units are mandatory.

**Unit number Unit Assessment GLH %**

1 Design the Built Environment Internally Assessed Controlled Assignment 72 GLH 20%

2 Create the Built Environment External Examination 72 GLH 20%

3 Value and Use the Built Environment External Examination 72 GLH 20%

4 BIM and Construction Projects\* Internally Assessed Controlled Assignment 144 GLH 40%

Each external examination are entitled to one resit opportunity meaning that you will sit unit 2 and 3 in year 12 with the option to improve your grade in year 13.

**Useful Websites**

Careers and further training http://www.citb.co.uk/careers-in-construction

Stages in the design process https://www.ribaplanofwork.com

Planning system 'plain English guide to the planning system’ https://www.gov.uk/government/uploads/system/uploads

Building Regulations https://www.gov.uk/government/collections/approveddocuments

Sustainability http://constructingexcellence.org.uk/resources/sustainableconstruction-checklist

Environmental impact (BREEAM) http://www.bre.co.uk