



## Course Information

# Design and Technology

## Building and Construction | BCN



### GTBCN

#### Unit 3 Drafting, landscaping, earthwork, energy use and recycling of building materials





In this unit you will explore properties of common construction materials (timber, metals, concrete, grout, brickwork, block work, insulation, mortar and paint); their mechanical properties under load and flexural actions; and their use in construction. Concepts in space and computation are developed.

You will practice reading drawn/drafted information as applied to building. Documentation for small projects is developed. You will explore processes in contexts drawn from building, landscaping, earthwork, projects involving different energy use, and the recycling of building materials. You will complete a range of projects building on your knowledge gained from units one and two.

#### Unit 4 Design, planning and management, environment and sustainability

In this unit you will build upon the understandings of building materials, structures and structural components and the evaluation of combinations of various materials to sustain the strength of structural components. The methods and materials used in connecting building elements are explored.

You will study further design considerations. Drawing/drafting skills are refined and practised with application to more complex building issues. New criteria are incorporated in the specifications of design projects and skills are practised in these areas of content. Service networks, economics and recycling are studied.

 <p><b>Prerequisites</b> Nil</p>	 <p><b>Year of Study</b> Year 12</p>	 <p><b>Type of Assessment</b> 20% Design 50% Production 15% Response 15% External Set Task</p>	 <p><b>Costs</b> \$170 total</p>
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