



OVERVIEW

In the Technology faculty we develop students into independent problem solvers, by teaching the students how to independently produce bespoke products in response to a given design brief. Year 11 in Construction sees students completing the Scientific applications of Construction in HT1. They will then prepare for the external exam in January before Designing a range of houses for a given client, demonstrating all of the knowledge gained in the previous units.

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Unit 2

- Learning aim, A: Understand the effects of forces and temperature changes on materials used in construction

Unit 1

- Recap of Unit 1 and exam preparation:
- Topic A.1: Performance requirements required for low-rise construction
- Learning aim B: Explore how sub-structures are constructed
- Learning aim C: Explore how superstructures are constructed

Assessment:

Unit 2 – assessed in school and moderated externally by a designated standards verifier.

Unit 1 – marked externally by a designated external examiner.

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Unit 3

- Topic A.1: The construction industry and the built environment
- Topic A.2: The type of activities undertaken in the construction industry
- Topic B.1: Understanding a client's needs
- Topic B.2: Understanding the constraints on design
- Topic B.3: Production of a client brief for a low-rise building
- Topic C.1: Generation of initial sketch ideas to facilitate development of the final design solution

Assessment:

Unit 3 – assessed in school and moderated externally by a designated standards verifier.

Useful resources for supporting your child at home:

Excellent 2 point perspective sketching tutorials:

[product designer maker - YouTube](#)

Student access to Focus eLearning – direct link given to students – resource video library will aid designing.

Homework:

Term 1 – exam questions – Ms Forms.

Term 2 – sketching techniques