

D&T Department

Year 10

Unit 5B: Timbers

Learning Journey

Prior learning:

New topics as part of GCSE Design & Technology course. Students will have prior knowledge of topics from previous units and KS3 theory/practical lessons and cross curricular (science, maths and geography)

| Learning sequence – topic title | | | | Endpoint |
|--|---|--|---|-----------------|
| Main learning steps | Sources, origins and properties Understand the main processes involved in producing workable forms of timber including: conversion, seasoning and the creation of manufactured timbers and evaluating the advantages and disadvantages of natural woods and manufactured boards | Working with timber based materials and fixings Identify the commercial stock forms, types and sizes and components in order to calculate quantities. Research into school-based skills in cutting, forming and processing techniques, tools and equipment used to shape. | Commercial manufacturing, surface treatments and finishes Exploring how timbers and boards are selected and processed for commercial products and knowing how materials are cut, shaped and formed to a tolerance. Investigate preparation and application of treatments and finishes to enhance functional and aesthetic properties . | |

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| Assessment | HW sheet – Hand in on teams for feedback. Also self check | HW sheet – Hand in on teams for feedback. Also self check | HW sheet – Hand in on teams for feedback. Also self check | Unit Test |
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Where will we use these ideas again:

Resources needed at home – internet access, basic drawing equipment including colouring pencils

Parental support:

- **Ensure students are regularly checking TEAMS and are on top of their work. If a lesson is missed it is the student's responsibility to catch up on the lesson missed.**
- **Purchase of Clear Revise PG Online Design and Technology Book**
- **Visit the Design Museum, British Museum, V&A, Science Museum**

Where will we use these ideas again:

This area will be assessed in both the final exam at the end of KS4 and within the NEA self-study project.

Resources to use at home:

Online resources

- [THE NEW DESIGN AND TECHNOLOGY GCSE \(technologystudent.com\)](http://technologystudent.com)
- [GCSE Design and Technology - AQA - BBC Bitesize](http://www.bbc.com/1/learning/technology/gcse-design-and-technology)

Video Resources:

- [DTtoolbox - YouTube](https://www.youtube.com/watch?v=...)
- [GCSE Design and Technology: Core principles - YouTube](https://www.youtube.com/watch?v=...)