

D&T GCSE

Curriculum Map

Next steps...

- ...A-Levels
- ...BTEC National
- ...Apprenticeships

Y11

Contextual Challenge -

Learners will be given three starter design briefs. They will then follow the design process recording their findings and developing a product which they will then make. Once the product is finished, they will evaluate the process.

Unit 4 - Ecological & social footprint.

- ◆ Forces and stresses.
- ◆ Improving functionality
- ◆ Ecological & social footprint.
- ◆ 6 R's.
- ◆ Scales of production.

Unit 1 - New & emerging technologies.

- ◆ Industry & Enterprise
- ◆ Sustainability & Environment
- ◆ People, Culture & Society
- ◆ Production & Techniques
- ◆ Informing Design Decisions

Unit 5b - Timber based Materials.

- ◆ Sources, Origins & properties.
- ◆ Working with timbers.
- ◆ Manufacturing and finishing.

Y10



Exam practice -

Learners will be given weekly quizzes and exam questions at the start of lessons to secure their knowledge and understanding.

Unit 7 - Selection of materials & components.

- ◆ Selection of materials & components.
- ◆ Tolerances.
- ◆ Material management.
- ◆ Tools, Equipment, techniques & finishes.
- ◆ Surface treatments & finishes.

Unit 6 - Designing Principles.

- ◆ Investigating primary & secondary data.
- ◆ The work of others.
- ◆ Companies.
- ◆ Design strategies.
- ◆ Communication of design ideas.

Unit 2 - Energy, materials, systems & devices.

- ◆ Energy generation & storage.
- ◆ Modern/smart materials.
- ◆ Composite materials & technical textiles.
- ◆ Systems approach to designing.
- ◆ Electronic systems processing.
- ◆ Mechanical devices

Unit 3 - Understanding the properties and uses of a variety of materials.

- ◆ Papers and Boards
- ◆ Timbers
- ◆ Metals and Alloys
- ◆ Polymers
- ◆ Textiles