

Subject:

# Design & Technology



HECKMONDWIKE  
GRAMMAR SCHOOL

## KS5 - Year 12 Curriculum Overview

Autumn Term

### Topics being taught

#### Theory

- Unit 5: Material and components considerations.
- Unit 7: Material processes.

#### Practical (Product Study)

- Exploring a project context.
- Sketching initial ideas.
- Development of ideas.
- CAD prototype modelling of final idea.

#### Practical (Furniture Project)

- Workshop health and safety.
- Prototype modelling.

Term 1

### What you will be assessed on

#### A Level Benchmark Assessment Stepping Stone Assessment

- End of unit test: Unit 5: Materials selection
- Progress Grade: Quality of project submission (Product Study).

Term 2

#### Milestone Assessment

- End of unit test: Unit 7: Material Processes
- Progress Grade: Quality of mid term project submission (Furniture Project).

### How you can support at home

Independent Reading: Chapter 5  
Material/component considerations.

Independent Reading: Chapter 7  
Manufacturing processes/techniques..

Independent project work: Product study

Independent Revision: Unit 5 and Unit 7.

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Spring Term

### Topics being taught

#### Theory

- Unit 7: Material processes
- Unit 4: Design communication

#### Practical (Furniture Project Cont.)

- Prototype modelling.
- Presentation of ideas.

#### Practical (IKEA Project)

- Exploring a project context.
- Sketching initial ideas.
- Development of ideas.
- CAD prototype modelling.
- Prototype modelling of final idea.
- Presentation of ideas.

Term 3

### What you will be assessed on

#### Stepping Stone Assessment

- End of unit test: Unit 7: Material processes.
- Progress Grade: Quality of project submission (Furniture Project).

Term 4

#### Milestone Assessment

- End of unit test: Unit 5; Unit 7; and Unit 4: Design communication
- Progress Grade: Quality of project submission (IKEA Lighting Project).

### How you can support at home

Independent Reading: Chapter 7  
Manufacturing processes/techniques..

Independent Reading: Chapter 4  
Design thinking and communication.

Independent project work: Furniture project and IKEA lighting project.

Independent Revision: Unit 7 and Unit 4.

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Summer Term

### Topics being taught

#### Theory

- Unit 1: Identifying Requirements
- Unit 2: "The work of others"

#### Non Exam Assessment (NEA)

Term 5

### What you will be assessed on

#### Stepping Stone Assessment

- End of unit test: Unit 1: Identifying Requirements.
- Progress Grade: Teacher assessed grade (NEA).

Term 6

#### Year 12 Finals Assessment

- A Level Paper 1: Principles of Product Design.
- Progress Grade: Teacher assessed grade (NEA).

### How you can support at home

Independent Reading: Chapter 1  
Identifying Requirements.

Independent Reading: Chapter 2  
"The work of others".

Independent project work: NEA

Independent Revision:  
Units 1-2, 4-5, and 7