



## Product Design GCSE KS4 Years 10 - 11

Exam Board: AQA

Specification:

<https://www.aqa.org.uk/subjects/design-and-technology/gcse/design-and-technology-8552>

Topics Covered:

New and Emerging Technologies

Energy Generation and Storage

Developments in New Materials

Mechanical Devices

Materials and their Properties

Selection of Materials or Components

Forces and Stresses

Ecological and Social Footprint

Sources and Origins

Stock forms, Types and Sizes

Scales of Production

Specialist Tools, Techniques and Processes

Surface Treatments and Finishes.

Investigation, Primary and Secondary Data

Environmental, Social and Economic challenge

The Work of Others

Design Strategies

Prototype Development

2 Hour Exam (100 marks, 50% of the GCSE)

Section A – Core technical principles (20 marks)

Section B – Specialist technical principles (30 marks)

Section C – Designing and making principles (50 marks)

NEA (100 marks, 50% of the GCSE)

The practical application of:

Core technical principles

Specialist technical principles

Designing and making principles

Through a substantial design and make task.

Links to helpful web-based resources:

BBC Bitesize

Seneca Learning

[technologystudent.com](http://technologystudent.com)

Suggested reading/ revision guides

Collins AQA GCSE 9-1 Design and Technology Revision Guide