

GCSE Design & Technology

Year 11 February Exam

What should I revise?

Core Technical Principles (multiple choice and short answer questions):

Automation and robots – p.2

Renewable energy sources & Energy storage systems – p.12-13

Planned obsolescence – p.7

Electronic components and systems - inputs, processes and outputs – p.24-25

Technology push and market pull – p.10

Materials – Timbers – p.17 & 23; Metals and Alloys - p.18; Textiles p.20-21; Smart materials – p.33;

Composite materials (for food packaging) – p.48

Material properties – p.14-15.

Specialist Technical Principles (short answer questions 2-5 marks and one extended response):

Casting metals (Die casting in the book) – p.69

Selection of materials – p.34-35

Stock forms (for timber-based materials) – p.60

Finishes (for timber-based materials) – p.72

Scales of production – p.38-39

Product sustainability and social issues – 6-9

Product lifecycle assessment/analysis – p.8

Designing and Making Principles (a mixture of short answer and extended response questions):

The work of a design company (Alessi) – p.94-95 and detailed revision page

Ergonomics – p.96

Investigation - primary & secondary research – p.100-101

Design Specification – p.99

Two point perspective drawing – p.108

Minimising waste (using materials efficiently) – p.117

Developing prototypes – forming materials, e.g. plastic by vacuum forming – p.70 or forming metal using the casting process – p.69.

Maths – percentages, area, bar charts, trigonometry.

