

Year 10 Design and Technology Mock Revision Guidance

Exam Board: AQA

SUMMER Mock Exam Paper

There are 3 topics that you will be examined on:

Section A – Core and Technical Principles - Multiple choice (20 marks)

Section B – Specialist technical principles - (30 marks)

Section C - Designing and making principles - (50 marks)

Areas to focus on are:

Section A

- Composite materials.
- Renewable energy sources and how they impact the environment.
- Recycling materials.
- Thermoforming polymers and properties of materials.
- Scales of manufacture.
- Types of motion.
- Smart Materials and their uses.
- Manufactured boards and their uses.
- Planned obsolescence
- Crowd funding
- Cams and gears used in products.

Section B

- Calculating costs on materials to be used in products.
- Why do designers use prototypes?
- Why are aesthetics important when designing products?
- Percentages and plotting graphs
- Metal casting processes
- Health and Safety in the workplace.

Section C

- Analysing and evaluating similar products looking at ergonomics, functionality and innovation?
- Calculating dimensions of products.
- How to work out the area of a circle when calculating the amount of material is required when making a product?
- Why user-centred design is important?
- Orthographic drawings.
- One point perspective drawings.

There are 100 marks available. Multiple choice questions are worth 20 marks.

Longer answer questions, worth another 80 marks.

Exam Length: 2 hours

Exam Weighting: In the real exam it is /100 and worth 50% of overall grade

Useful revision resources:

AQA Design and Technology revision textbook.

www.technologystudent.com

GCSEPod Design and Technology.