Subject: Design and Technology

Contact: Mrs Jones David.biles@saa.weareauthentic.education

Structure of the exam:

- 1 exam
- 1h 30 minutes
- 75 marks

Topics to be covered in the exam: Section A Only

Design and Technology and Our World

- New and emerging technologies
- Industry, Enterprise & Consumer Demand
- Moral & Ethical Issues
- Sustainability
- Energy Generation & Storage

Modern Materials

- Composite Materials
- Technical Textiles
- Smart Materials

Electronic Systems, Programmable Components and Mechanical Devices

- The Systems Approach
- Input Output and Process
- Communicating Electronic Systems
- Microprocessor vs Microcontroller
- Types of Motion
- Gears and Gear rations

Materials

- Natural & Manufactured Timbers
- Ferrous & Non-Ferrous Metals
- Polymers (Plastics)
- Fibres & Textiles
- Papers and Boards

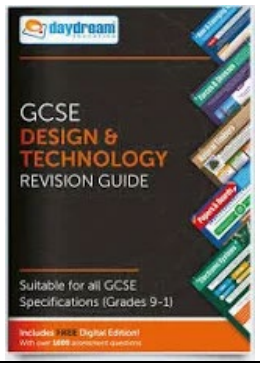
Product design

- Ergonomics
- Anthropometrics
- Function
- Aesthetics

Types of question in Section A:

- Identify/name/state questions
- Subject knowledge questions

- Data/chart interpretation questions
- Calculation questions
- Describe questions
- Explain why questions
- Compare/difference questions
- Notes and sketches questions
- Designing and making principles questions
- Higher-mark analyse/explain questions requiring developed answers

Type of revision	Resources needed	Time required
Mind Maps Mind Maps of key topics.	Knowledge organisers GCSE Design and Technology Revision guide (all students have been provided with this) 	30 minutes each section