Year 8 Exam guidance 2023

The time allowed for the Design exam is 1 hour

You will be asked questions relating to topics covered this year including: Jewellery, User Centred Design and CAD.

You will need a pen, pencil, ruler and **calculator**

You may be asked to **sketch**, work out **Mathematical calculations** and describe the steps of how to draw an object in 3D using **Onshape**.

The exam will consist of theory learnt this year including:

- **Metal theory**
    - Metals composition
    - Properties of materials
    - Forming metals - Casting/mould making
    - Joining metals - Silver soldering
    - Metalworking tools/equipment

- **Resin casting**
    - Thermoplastics/thermosets

- **Assistive technology**
    - Ergonomics/anthropometrics

- **Drawing conventions**
    - Isometric
    - Orthographic

- **Onshape (CAD) skills:**
    - Drawing basic shapes
    - Using dimension tools
    - Extruding into 3D
    - Revolve
    - Assemblies