

Year 10 Design and Technology Revision

The paper is 2 hours long and is out of 100. You will be expected to have a black pen, some Drawing-instruments (ruler pencil etc.), a calculator and a protractor.

The paper is made up of **three sections**:-

Section A – Core Technical principles (Multiple choice & short answer questions assessing broad technical knowledge – answer all questions)

Section B – Subject Technical Principles (Specialism – answer questions related to **Timber Based Materials** (You can choose other areas if you are stuck) over several short questions and one extended response to assess a more in depth knowledge.)

Section C – Designing and Making Principles – (Short and extended responses, questions include drawings & simple maths - answer all questions)

You will need to revise the following:-

For Section A – 20 marks

- Scales of production p38
- Forces and stresses p36
- Powering Systems p12
- Smart Materials p33
- Paper, Board and Timber p16/17
- Metals, Alloys and Polymers p18/19
- Textiles p20/21

For Section B – 30 marks

- Specialism – Timber based materials p44-5 (Answer the questions related to **Timber Based Materials**, but you can use other areas if you are stuck)
- Reinforcing materials P37.
- Scales of production p38/39 /63
- Industrial processes- Production aids p42/43
- Properties of wood- P17
- Sustainability / impact of material selection on society p6/9/47

For Section C – 50 marks

- User needs (aesthetics, ergonomics, anthropometrics etc.) 96-107/ p112 - 117
- Isometric drawing p108
- Orthographic Drawing p111
- Representing data using charts and graphs.

For Top Tips - Read about 'Exam techniques' on pages 120-121

Remember there will be links to science and maths throughout the paper – You will know more than you think if you transfer your skills/knowledge from Maths and Science over to D&T.

Good Luck!