

Year 11 GCSE Design & Technology Exam Preparation & Revision – January Mock

SECTION A: Core Technical Principles (multiple choice & short answer questions, 20 marks)

Properties of materials – p.14-15

Paper and Board – p.16

Timber – p.17

Alloys – p.18

Textiles – natural fibres – p.20

Manufactured boards – p.23

Electronic Systems and Mechanical Devices: Input Devices – p.25, Microcontrollers – p.26 and Output Devices – p.27

Modern Materials: Smart materials, Composites & Technical Textiles – p.33

Forces – p.36

Paper making process – p.44

SECTION B: Specialist Technical Principles (30 marks)

Laser cutting – p.5, 41, 90

Laminating – p.37, 56

Surface finishes for wood – p.72

Scales of production – p.38-39

8 mark question – Benefits of using recycled materials rather than using virgin material to make products – p.9 & 35

SECTION C: Designing & Making Principles (50 marks)

Quality Control, Tolerances & Tests – p.40-41

Good understanding of the work of 2 designers from p.94-95

Ergonomics & Anthropometrics – p.96-97

Market Research – p. 100-101

Modelling ideas – p.106-107

Developing prototypes – p.114-115

