

GCSE Design & Technology Revision List Year 11 – NOVEMBER MOCK

Exam information:

Materials:

For this paper you must have:

- A black pen
- A pencil
- A calculator
- A protractor

The exam is broken into three sections. The paper is 2 hours long and is worth 100 marks.

Section A: Core technical principles (20 marks)

Section B: Specialist Technical Principles (30 marks)

Section C: Designing and Making Principles (50 marks)

Topic	Revised?
Smart, Modern & Technical Materials (Shape memory alloys, thermochromic/photochromic pigments, Kevlar properties)	
Social, Cultural & Economic Factors (Designing for culture, social responsibility, safe working conditions, pollution)	
Automation, Industry & Enterprise (Impacts of automation, co-operatives, crowd funding, virtual marketing)	
Mechanisms & Mechanical Movement (Linkages, gears, pulleys, belts, levers - 1st/2nd/3rd class, effort, load, fulcrum)	
Categorisation of Materials (Ferrous/non-ferrous metals, softwoods/hardwoods, plant-based vs synthetic fibres)	
Electronic Systems & Components (Input, process, and output components e.g., microcontrollers, LEDs, switches)	
Textile Structures (Woven, knitted, felted, and bonded fabrics)	
Energy Generation & Storage (Kinetic pumped storage systems, renewable vs non-renewable power)	
Stock Forms & Materials Processing (Stock forms of woods, metals, polymers, papers, and textiles)	
Commercial Manufacturing Techniques & Finishes (Forming, shaping, and finishing methods for common material groups)	
Material Removal & Wasting Processes (Drilling, perforating, sawing techniques and tools)	
Standard Components (Definition, advantages, and applications in manufacturing)	
Forces & Stresses on Materials (Compression, tension, torsion, bending, shear)	
Mathematical & Material Calculations (Percentage recycling rates, material waste, volume calculations, unit conversions)	
Product Analysis & Evaluation (Evaluating products based on aesthetics, ergonomics, and function)	
Design Communication & Systems (System diagrams, input/process/output modelling)	
Graphical Communication Techniques (3rd angle orthographic projection, 2-point perspective, exploded drawings vs orthographic)	

Revision Links

Go onto **Seneca Learning** and **BBC Bitesize (AQA Design and Technology)** are also recommended revision tools.

You also have access to the CGP Design & Technology Revision Guide and Past Paper questions on Microsoft TEAMS.

Aspire for GREATNESS! What Mark should you aim for to get your Target Grade?

Max	9	8	7	6	5	4	3	2	1
100	86	78	70	62	54	46	34	22	11