

Year 11 Technology Autumn PPE 1 REVISION

SECTION A

Multiple choice and 2-4 mark questions

General revision: Co-operatives, crowdfunding, renewable energy, designing for maintenance, biodegradable materials, paper and board, materials, mechanisms, global warming,

SECTION B – Specialist technical principles

2-6 mark questions whilst also combining knowledge of materials – be sure to pick the correct product or material when choices have to be made.

Revision Plan – use with topic list

TASK	Topic Area	Video Link	Activity	Pages in CGP revision guide
1	Forces	Technology student link Different Types of Forces (technologystudent.com)	Are you able to identify forces acting on an object? Tension Compression Shear Bending Torsion NOT Gravity	38-39
2	Additive Processes	BBC Bitesize link Joining materials and components - Systems: Manufacturing techniques - Edugas - GCSE Design and Technology Revision - Edugas - BBC Bitesize Technology student link PRINTING AND ASSOCIATED PROCESSES (technologystudent.com)	Can you describe what an additive process is? Two good examples are printing, 3D printing and soldering	57,58 97
3	Quality Control	Technology student link Quality Control (technologystudent.com)	What is Quality Control? If a material has a tolerance on a size. What does this mean? Can you describe three different quality control tests?	42,43
4	Stock Forms Sources of materials	BBC bitesize link Stock forms, types and sizes - Timber-based materials - AQA - GCSE Design and Technology Revision - AQA - BBC Bitesize Sources of materials PP PowerPoint Presentation (technologystudent.com)	Why are stock forms important when designing?	52

SECTION C – Designing and making principles

Drawing tasks, extended answer questions and mathematical questions

5	Analyse & Evaluate	Youtube clip GCSE D&T exam walkthrough - Design question. (youtube.com)	Analyse: Separate information into components to identify their characteristics Evaluate: Judge from available evidence	111
	Isometric drawing	Technology student link (will also take you to youtube) ISOMETRIC DRAWING (technologystudent.com)	You need to be confident at finishing off a drawing in isometric or drawing an isometric drawing from a third angle view	115-118
6	Surface finishes	Technology student link FINISHES - WOODS, METALS AND PLASTICS (technologystudent.com)	Understand the different reasons why surface finishes are required whilst also being able to list different finishes for different materials	76,77
	Third Angle drawing	BBC Bitesize link Working drawings - Designing - AQA - GCSE Design and Technology Revision - AQA - BBC Bitesize	You have to be able to draw in plan, front and end views to break apart a complex 3 dimensional shape	115-118