

## 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 <a href="http://technologystudent.com">Different Types of Forces (technologystudent.com)</a>	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 <a href="#">Joining materials and components - Systems: Manufacturing techniques - Edugas - GCSE Design and Technology Revision - Edugas - BBC Bitesize</a>  Technology student link <a href="#">PRINTING AND ASSOCIATED PROCESSES (technologystudent.com)</a>	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 <a href="http://technologystudent.com">Quality Control (technologystudent.com)</a>	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 <a href="#">Stock forms, types and sizes - Timber-based materials - AQA - GCSE Design and Technology Revision - AQA - BBC Bitesize</a>  Sources of materials PP <a href="#">PowerPoint Presentation (technologystudent.com)</a>	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 <a href="#">GCSE D&amp;T exam walkthrough - Design question. (youtube.com)</a>	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) <a href="#">ISOMETRIC DRAWING (technologystudent.com)</a>	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 <a href="#">FINISHES - WOODS, METALS AND PLASTICS (technologystudent.com)</a>	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 <a href="#">Working drawings - Designing - AQA - GCSE Design and Technology Revision - AQA - BBC Bitesize</a>	You have to be able to draw in plan, front and end views to break apart a complex 3 dimensional shape	115-118