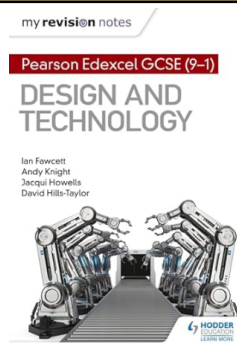
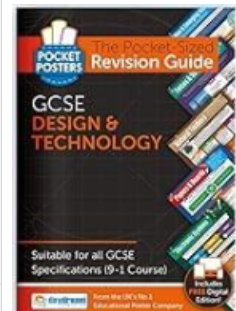
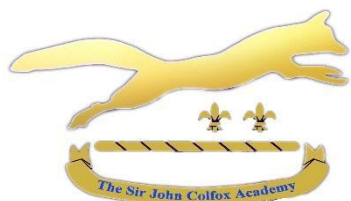


Exam Board	Recommended revision guide	Support available in school
Pearson Edexcel	 	Lunchtimes C101 After school intervention Wednesday and Thursday C101



Design and Technology Timbers



Revision Schedule 2026-27

Useful online resources	Exam date(s)
https://senecalearning.com/en-GB/ - Seneca revision https://revisionworld.com/gcse-revision/design-technology/gcse-design-and-technology-past-papers-0/edexcel-gcse-design-and-technology-past-papers - Past papers https://www.bbc.co.uk/bitesize/examspecs/zb6h92p - Core content, materials and NEA information. https://studyrocket.co.uk/revision/gcse-design-and-technology-edexcel	Tuesday 15th June – Afternoon

September					
Week beginning...	Topic	Content to revise	Complete (tick)	Knowledge test score	Weeks left
Monday 7th	1.1 The impact of new and emerging technology	Industry (1.11), Enterprise (1.12), Sustainability (1.13), People (1.14), Culture (1.15), Society (1.16), Production techniques (1.17 & 1.18).			32
Monday 14th	1.2 Evaluation of New and Emerging Technology	• Critical evaluation of new and emerging technologies (1.21) e.g. budget, time scale, materials, etc. • How they can be used in contemporary and potential future scenarios – e.g. natural and medical disasters, travel, etc. • Ethics – where it was made and who by? Fair trade? • Environment – Carbon footprint, life cycle analysis (LCA), transportation.			31
Monday 21st	1.3 Energy Generation, Storage and Sources	• Non-renewable sources, advantages and disadvantages • Renewable sources, advantages and disadvantages (1.31) • Powering systems – examples, advantages and disadvantages (1.32)			30
Monday 29th	1.4 Smart and Composite Materials, and Technical Textiles	Examples, advantages and disadvantages of the following: • Modern and smart materials • Composite materials • Technical Textiles			29
October					
Monday 5th	1.5 Mechanical Devices	• Types of movement (1.51) • Classification of levers and calculating mechanical advantage (1.52a) • Linkages (1.52b) • Cams and followers (1.53) • Pulleys and belts (1.54) • Cranks and sliders • Gears and calculations (1.5a & 1.5b)			28
Monday 12th	1.6 Electronic Systems	The role, applications, advantages and disadvantages of the following: • Sensors – LDRs and thermistors. • Control devices – switches, transistors and resistors. (1.61) • Outputs – Buzzers and LEDs. (1.62)			27
Monday 19th	1.7 Programmable Components	• Using flowcharts. • Switching outputs on and off. • Processing analogue inputs. • Simple routines to control outputs – delays, loops and counts. (1.7)			26
Monday 26th	1.8 Ferrous and Non-Ferrous Metals	You must know about each of the following: • What is a ferrous metal and examples. • What is a non-ferrous metal and examples.			25

		Properties of the above and their meanings. (1.8)			
November					
Monday 2nd	1.9 Papers and Boards 1.10 Thermoforming and thermosetting polymers.	You must know about each of the following: - Papers and examples. - Boards and examples. - Properties of the above and their meanings. (1.9) - What are thermoforming plastics? - What are thermosetting plastics?			24
Monday 9th (Mock Week 1)	7.1 Design Context 7.2 Sources of Timber Origins (7.24)	When designing or modifying a product, you should have knowledge of timbers, where they come from and why materials have changed overtime. Geographical origin of softwoods and hardwoods, with examples from the following: - Cold climates (Alpine) - Temperate climates (European) - Tropical Rainforests (Amazonian)			23
Monday 16th (Mock week 2)	7.2 Sources of Timber Hardwoods (7.21)	Where hardwoods come from Knowledge of at least 3 hardwoods Advantages, disadvantages and properties.			22
Monday 23rd	7.2 Sources of Timber Softwoods (7.22)	Where softwoods come from Knowledge of at least 3 softwoods Advantages, disadvantages and properties.			21
Monday 30th	7.2 Sources of Timber Manufactured (7.23)	What is manufactured board? Knowledge of at least 2 manufactured boards Advantages, disadvantages and properties.			20
December					
Monday 7th	7.2 Sources of Timber Characteristics (7.25)	Knowledge of: - Knots - Colour - Grain Structure - Density			19

Monday 14th	Working Properties (7.26)	Definitions of: • Hardness • Toughness • Durability • Elasticity • Tensile Strength • Compressive Strength			18
January					
Monday 4th	7.2 Sources of Timber Social Footprint (7.27)	Definitions and examples of: • Trend forecasting. • The impact of logging on communities. • Recycling and disposal			17
Monday 11th	Ecological Footprint (7.28)	Define what ecological footprint is. Definitions and examples of the following: • Sustainability • Deforestation • Habitat destruction and loss • Processing • Transportation • Wastage • Pollution			16
Monday 18th	7.3 Selection of Timbers Aesthetic Factors (7.31)	• Knowledge of the 3 aesthetic factors affecting product design and thus the selection of the timbers.			15
Monday 25th (Mock Week 1)	Environmental Factors (7.32)	• Environmental factors – Sustainability, Genetic engineering, Seasoning and Upcycling			14
February					
Monday 1st (Mock Week 2)	Availability Factors (7.33)	• Availability Factors – Stock Materials, Specialist Materials and Hurricanes, Storms and Disease.			13

Monday 10th	7.3 Selection of Timbers Cost Factors (7.34)	Cost Factors – Quality of material, Manufacturing processes and Treatments.			12
Monday 15th	Social Factors (7.35)	Social Factors – Social groups, Trends and Popularity.			11
Monday 22nd	Cultural/Ethical Factors (7.36)	Cultural/Ethical Factors – Avoiding Offence, Suitability for the market, Consumer society, Mass production, Built-in obsolescence.			10
March					
Monday 1st	7.4 Strengthening Timber	Knowledge of: - Forces and Stresses – Compression, tension, shear, natural forces and pre-stressed construction beams. - Reinforcement Techniques – Frame structures, fabrication/assembly, lamination, braces/tie bars and embedding composite materials.			9
Monday 8th	7.5 Stock forms and Sizes	Stock Forms – Regular sections, Mouldings, Dowels and Sheets Sizes – PAR, PSE, Cross-sectional Area, Diameter and Board Sizes.			8
Monday 15th	7.8 Surface Finishes and Treatments	Knowledge of: Painting, Staining, Varnishing, Wax, Oil, Shellac, Veneering.			7
Monday 22nd	7.6 Manufacturing Processes Cutting and Shaping Material (7.61)	When to use the following processes: Routing, Sawing, using a Mortise, and using a bag press.			6
Monday 29th	Scale of Production (7.62)	Definitions, advantages and disadvantages of scales of production – One off, Batch, Mass Production, Continuous.			5
April					
Monday 5th	7.6 Manufacturing Processes	- Methods of marking-out. - Jigs - Fixtures - Templates			4

	Techniques for quantity production (7.63)	• Patterns • Sub-assembly • Computer-Aided Manufacturing (CAM) • Quality control - Working within tolerance • Efficient cutting to minimise waste.			
Monday 12th	7.7 Equipment/Processes Used to Make Prototypes Tools and Equipment (7.71)	Knowledge of what the following equipment/processes are used for and how to use it safely: • Hand tools, Machinery, Digital design and manufacture. • Drilling, Cutting, Planing, Chiselling, Turning, Abrading, Carving and Rasps/surforms.			3
Monday 19th	Shaping (7.72)				2
Monday 26th	Fabricating/Constructing (7.73)	Knowledge of the following processes: • Lamination, Veneering, using screws, Nailing, using adhesives, Joints, wastage, and addition.			1
May					
Monday 3rd	Assembling (7.74)	How to assemble products using: • Knock-down fittings, hinges, ironmongery.			0
Monday 10th	DT Maths Revision	Use the maths revision book to look at specific maths questions and answers to see how these questions are answered in the exam.			0
Monday 17th	DT Maths Revision	Use the maths revision book to look at specific maths questions and answers to see how these questions are answered in the exam.			0
Monday 24th	Personal Revision				0
Monday 31st	Personal Revision				0
June					
Monday 7th	Personal Revision				0

Monday 14 th	Personal Revision				0
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