

Year10 CGSE Design & Technology - Textiles

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13
Cycle 1	W/C 31/08	07/09/26	14/09	21/09	28/09	05/10	12/10	02/11	09/11	16/11	23/11	30/11	7/12
										Advantages and disadvantages of non-renewable energy sources			
	Intro to GCSE How paper/board is made and measured	Papers and boards test.	Flowcharts Microcontrollers and microprocessors	Natural, regenerated and synthetic fabrics and their properties	Fibres test	Metal finishes	Technical materials and their properties	Technical, smart, composite and interactive recap	Plastics and their properties		Production methods	Carbon footprint and fairtrade	Technology push and market pull
	Types of papers and boards and uses	Electronic symbols and key words.	Calculating percentages electronics recap	Staple and filament fibres and fabric constriction	Ferrous and non-ferrous metals and metal properties	Forces and metals recap	Smart materials and their properties	Smart, technical and composite test	Plastics test	Exam questions practice on energy	Environmental logos and the 6r's	Impact of textiles on the environment	New technologies and automation
	Properties and finishes of papers and boards	Circuit boards, LDR's and Thermistors	Electronics test CAD/CAM	Calculating circumference using PI. Recap Fibres	Types of ferrous and non-ferrous metals and their uses.	Metals test	Composite and interactive materials	Thermoforming and thermosetting plastics	Advantages and disadvantages of renewable energy	Energy test	The life cycle assessment	Environment test	Anthropometrics and ergonomics
Cycle 2	W/C 14/ 12	04/01	11/01	18/01	25/01	01/02	08/02	22/02	01/03	08/03	15/03	22/03	12/04
					Formal Assessment	Formal Assessment							
	Product lifecycle and legislation	Mechanical advantage and velocity ratio	Mechanisms test	Advantages and disadvantages of natural timbers. Angles	Decorative techniques and Batik and vinyl	Industry tools	Fabric testing and properties	Threading the bobbin/ machine stitches	Overlocked/ bias binding and double folded hem	Piped trim	Patchwork	Pleats	Cut out fabric
	New technologies exam	Pulleys and output speed	Softwoods and hardwoods	Finishes on timbers.	Decorative techniques dye cutter and fabric pens	Fabric finishes and darts, pleats	In depth textiles test	Plain and overlocked seam	Patch pocket	Collars	Quilting	Cut out paper pattern	Cut out fabric
	Motions and levers	CAMS and linkages	Manufactured boards and properties	Timbers test	Decorative techniques screen printing and block printing	Lay planning and pattern markings	Threading sewing machine	Felled and French seams	Darts	Gathers	Hand applique/ machine applique	Cut out fabric	Construct chosen product
Cycle 3	W/C 19/04	26/04	03/05	10/05	17/05	24/05	07/06	14/06	21/06	28/06	05/07	12/07	19/07
							Formal Assessment	Formal Assessment	Formal Assessment	Formal Assessment			
	Construct chosen product	Construct chosen product	Construct chosen product	Construct chosen product	Materials research	Textiles and the environment	Analysis of brief and brief choice	Product analysis	Problems and opportunities	Target market	Moodboard	Quick sketch ideas	Iterative design and development
	Construct chosen product	Construct chosen product	Construct chosen product	Construct chosen product	Materials research	Social, moral ethical issues	Designer research	Product analysis	In depth analysis	Adapted design brief	Moodboard	Quick sketch ideas	Iterative design and development
	Construct chosen product	Construct chosen product	Construct chosen product	Construct chosen product	Textiles and the environment	Social, moral ethical issues	Designer research	Brief research	In depth analysis	In depth research	Collation of work	Quick sketch ideas	Iterative design

Year11 – Design and Technology - Textiles

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13
Cycle 1	W/C 31/08	07/09/26	14/09	21/09	28/09	05/10	12/10	02/11	09/11	16/11	23/11	30/11	7/12
								Formal Assessment	Formal Assessment	Formal Assessment			
	Iterative design ideas	Specification	Design ideas	Design development	Techniques and modelling	Techniques and modelling	Prototype construction	Prototype construction	Prototype construction	Materials and costing	Technical details	Production log	Production log
	Iterative design ideas	Specification	Design ideas	Design development	Techniques and modelling	Techniques and modelling	Prototype construction	Prototype construction	Prototype construction	Materials and costing	Technical details	Production log	Production log
	Iterative design ideas	Specification	Design ideas	Design development	Techniques and modelling	Techniques and modelling	Prototype construction	Prototype construction	Prototype construction	Materials and costing	Technical details	Production log	Final design
Cycle 2	W/C 14/12	04/01	11/01	18/01	25/01	01/02	08/02	22/02	01/03	08/03	15/03	22/03	12/04
								Formal Assessment	Formal Assessment				
	Final design	Product lay planning	Product cutting	Product construction	Product construction	Product construction	Product construction	Testing against the specification	Evaluation	Questionnaire and results	Evaluation	Modifications	REVISION Timbers & metals
	Final design	Product lay planning	Product cutting	Product construction	Product construction	Product construction	Product construction	Testing against the specification	Evaluation	Questionnaire and results	Modifications	Final product photos	Fibres and papers
	Collate work	Product cutting	Product cutting	Product construction	Product construction	Product construction	Product construction	Testing against the specification	Evaluation	Evaluation	Modifications	Coursework deadline	Plastics
Cycle 3	W/C 19/04	26/04	03/05	10/05	17/05	24/05	07/06	14/06	21/06	28/06	05/07	12/07	19/07
	Technical materials	Motions and levers	CAMS/ Linkages and gears	Production methods / industry tools	LCA and 6r's	Forces and legislation	Last revision session before exam.						
	Smart materials	Mechanical advantage	Electronics	Energy and math	Textiles and the environment	Fabric construction							

	Composite and interactive textiles	Pulleys and velocity ratio	Microcontrollers and processors/ logos	New technologies and design process	Automation and product Lifecycle	Fabric finishes								
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