



	acy, Vocabulary, g, Writing	Character (SMSC & Values)	Careers & Employability	Enrichment & C	ultural Capital	Equality, Diversity & Inclusivity
meaningsUse of textreading/reGroup pres	sentations - Oracy I calling oracy in lesson	 SMSC: Sustainability - FSC Values taught through moral choices when designing products Understand developments in design and technology, its impact on individuals, society and the environment, and the responsibilities of designers, 	 The role of a Designer How skills learnt in DT are transferable to other subjects and career paths (Eg Problem Solving) 	design movements and prominent designers. Investigation and use of cultural patterns in design.		 Using research and exploration, such as the study of different cultures, to identify and understand user needs
		Formal Assessments (Title/Date)				Home Learning
Manufa	and evaluation Design cturing of Prototype N Module Theory Test (3	Nodel (30 Marks)		Researc Moodbo		 Research Moodboard Timbers Design and Design development
Jnit of Work	Knowledge and Sk	ills	Curriculum Links and Seq	uencing	National Curi	riculum (including KS2)
Intro to project Lesson 1-4	 ★ Sustainability ★ Research of design,) ★ Categories o boards), project 	ect, careers and DT links y - Meaning in terms of design and 6 Rs design movements and the work of others (Cultural f timber (softwoods, hardwoods, manufactured perties & characteristics of timber, sustainability aber, joining techniques for timber, finishes for timber	 → 7.2 The sources, origins, physical and working properties of each natural and manufactured timber and their social and ecological footprint technology, its impact on it and the environment, and of designers, engineers and or past and others for professionals and others for the state of t		estand developments in design and cology, its impact on individuals, society are environment, and the responsibilities igners, engineers and technologists se the work of past and present assignals and others to develop and	

	★ Types of timber joints	Wider Curriculum Links: → Links with Art, Geography & Science → Cultural SMSC Sequencing Links: → 6 Rs across all DT and progresses in depth in Y8/9 → Understanding how research influences design	Use cultural design to influence and inspire design ideas and development
Responding to a design brief & Specification Lesson 5	 ★ Design brief: Design Era Clock ★ Responding to a specification - consider constraints, materials and user needs ★ Developing a mood board based on the specification, brief and previous research 	GCSE Link: → 2.1 NEA Design and Develop Wider Curriculum Links: → Careers: (Product Design) Sequencing Links: → Understanding Specification - links to All DT areas and future progression	 use research and exploration, to identify and understand user needs identify and solve their own design problems and understand how to reformulate problems given to them develop specifications to inform the design of innovative, functional, appealing products that respond to needs in a variety of situations use a variety of approaches [for example,
Drawing Skills Lesson 6-7	 ★ Annotated sketches, design justification and development ★ Exploded drawing ★ Generating ideas - ideation ★ Rendering techniques 	GCSE Link: → 1.17 Communication to present ideas → 7.5.1 Stock forms/types: → 7.3.6 Cultural and ethical factors:	biomimicry and user-centred design], to generate creative ideas and avoid stereotypical responses develop and communicate design ideas using annotated sketches, detailed plans, 3-D and mathematical modelling, oral and digital presentations and computer-based tools
Manufacture Lesson 8-10	 ★ Cutting, shaping and finishing timber ★ Adhesives selection ★ Assessment: Design movement cultural pattern influence clock 	 → NEA: Design & Develop Wider Curriculum Links: → Maths (Scale) Art (use of media) → Career: CAD technician Sequencing Links: → Basic design skills - drawing, perspective, CAD modelling to build onto more prgressove techniques ion Y8/9 	

Evaluation Lesson 10	 ★ Assessment: Evaluation and annotation against specification ★ Peer and self-assessment ★ Recap skills and knowledge gained so far. ★ Review of design ideas compared to manufacture 	GCSE Link: → NEA: Evaluation Wider Curriculum Links: → English (Structure of an evaluation) Sequencing Links: → Use of spec to evaluate and adapt design proposals	test, evaluate and refine their ideas and products against a specification, taking into account the views of intended users and other interested groups
Manufacture And Evaluation Lesson 11-13	 ★ Cutting, shaping and finishing timber ★ Health and safety, use of modelling tools ★ Properties of timbers/polymers, adhesives ★ Assessment: Design movement cultural pattern influence clock 	GCSE Link: → NEA: Manufacture Wider Curriculum Links: → Maths (Measurement & Scale) → Career: Model maker Sequencing Links: → Introductory making skills to progress onto Y8/9	select from and use specialist tools, techniques, processes, equipment and machinery precisely, including computer-aided manufacture
End of module Test & Reflection Lesson 14-15	 ★ Assessment: End of module test (Knowledge) ★ Review and reflection of marks ★ Links to careers and other subjects ★ Reflect on Learning Journey and DT mapping & progressions ★ Reflect on fundamental researching, designing, making and evaluation skills that will be consistently used through their DT Learning Journey. 	GCSE Link: → Core Theory Wider Curriculum Links: → English and Maths Sequencing Links: → Knowledge recall through exam style questions	•

Year 8 - Scheme of Learning				
Word Rich - Oracy, Vocabulary, Reading, Writing	SMSC & Values	Careers & Employability	Enrichment & Cultural Capital	Equality, Diversity & Inclusivity

- meanings Use of text reading/res Group pres	entations - Oracy calling oracy in lesson	 SMSC: Sustainability - Polymers and fossil fuels Values taught through moral choices when designing products Understand developments in design and technology, its impact on individuals, society and the environment, and the responsibilities of designers, 	 The role of a Designer How skills learnt in DT are transferable to other subjects and career paths (Eg Problem Solving) 	 Links to histor movements at designers. Investigation a cultural patter 	nd prominent and use of	Using research and exploration, such as the study of different cultures, to identify and understand user needs
	For	mal Assessments (Title/Date)		Blended Learning		Home Learning
❖ Manufac	nd evaluation Teenag cturing of Prototype M Module Theory Test (30			CAD modelling Timbers		 Moodboard
Unit of Work	Knowledge and Sk	ills	Curriculum Links and Seque	encing	National Curr	riculum (including KS2)
Responding to a design brief & Specification Lesson 1 to 2	★ Responding constraints,★ Developing	f: teenage desk tidy to a specification - consider materials and user needs a mood board based on the n, brief and previous research	GCSE Link: → 2.1 NEA Design and D → 1.1.8 Production Tech Wider Curriculum Links: → Careers: (Design) Sequencing Links: → Understanding Specific DT areas and future p	iniques ication - links to All	 use research and exploration, to identify and understand user needs identify and solve their own design problems understand how to reformulate problems give them develop specifications to inform the design of innovative, functional, appealing products the respond to needs in a variety of situations 	

Materials and properties Lesson 3	 ★ Sustainability - Meaning in terms of design and 6 Rs ★ Categories of timber (softwoods, hardwoods, manufactured boards), properties & characteristics of timber, sustainability factors of timber, joining techniques for timber, finishes for timber ★ Types of timber joints 	GCSE Link: → 1:12 The categorisation of the types, properties and structure of natural and manufactured timbers → 7.2.5 The physical characteristics of each timber: Wider Curriculum Links: → Links with Art, Geography & Science → Cultural SMSC Sequencing Links: → 6 Rs across all DT and progresses in depth in Y8/9 → Understanding how research influences design	 Understand developments in design and technology, its impact on individuals, society and the environment, and the responsibilities of designers, engineers and technologists Analyse the work of past and present professionals and others to develop and broaden their understanding Use cultural design to influence and inspire design ideas and development
Drawing Skills Lesson 4-5	 ★ Annotated sketches, design justification and development ★ Isometric drawing ★ Generating ideas - ideation ★ Rendering techniques 	GCSE Link: → 1.17 Communication to present ideas → 7.3.6 Cultural and ethical factors: → NEA: Design & Develop Wider Curriculum Links: → Maths (Scale) Art (use of media)	 use research and exploration, to identify and understand user needs identify and solve their own design problems and understand how to reformulate problems given to them develop specifications to inform the design of
Manufacture Lesson 6-10	 ★ Accuracy of cutting comb/finger joint. ★ Finishing of timber ★ Assessment: Manufacture of comb/finger joint box 	 → Career: Product Design, CAD Technician Sequencing Links: → Basic design skills - drawing, perspective, CAD modelling to build onto more progressive techniques in Y8/9 	 innovative, functional, appealing products that respond to needs in a variety of situations use a variety of approaches [for example, biomimicry and user-centred design], to generate creative ideas and avoid stereotypical responses develop and communicate design ideas using annotated sketches, detailed plans, 3-D and mathematical modelling, oral and digital presentations and computer-based tools
Evaluation Lesson 10	 ★ Assessment: Evaluation and annotation against specification ★ Peer and self-assessment ★ Recap skills and knowledge gained so far. 	GCSE Link: → NEA: Evaluation Wider Curriculum Links: → English (Structure of an evaluation) Sequencing Links:	test, evaluate and refine their ideas and products against a specification, taking into account the views of intended users and other interested groups

	★ Review of design ideas compared to manufacture	→ Use of spec to evaluate and adapt design proposals	
Manufacture And Evaluation Lesson 11-13	 ★ Applying timber fishes ★ Accuracy of finger joint ★ How their research has influenced their design work ★ Assessment: Final model of Desk Tidy 	GCSE Link: → NEA: Manufacture Wider Curriculum Links: → Maths (Measurement & Scale) → Career: Model maker Sequencing Links: → Introductory making skills to progress onto Y8/9	select from and use specialist tools, techniques, processes, equipment and machinery precisely, including computer-aided manufacture
End of module Test & Reflection Lesson 14-15	 ★ Assessment: End of module test (Knowledge) ★ Review and reflection of marks ★ Links to careers and other subjects ★ Reflect on Learning Journey and DT mapping & progressions ★ Reflect on fundamental researching, designing, making and evaluation skills that will be consistently used through their DT Learning Journey. 	GCSE Link: → Core Theory Wider Curriculum Links: → English and Maths Sequencing Links: → Knowledge recall through exam style questions	

Year 9 - Scheme of Learning					
Word Rich - Oracy, Vocabulary, Reading, Writing	SMSC & Values	Careers & Employability	Enrichment & Cultural Capital	Equality, Diversity & Inclusivity	
 Tier 2/3 Vocabulary every lesson meanings and etymology Use of texts to support reading/research 	 SMSC: Sustainability Values taught through moral choices when designing products 	 The role of a Designer How skills learnt in DT are transferable to other subjects and 	 Looking at the work of others included in GCSE content. 	Using research and exploration, such as the study of different cultures, to identify and understand user needs	

	entations - Oracy calling oracy in lesson	 Understand developments in design and technology, its impact on individuals, society and the environment, and the responsibilities of designers 	career paths (Eg Problem Solving)			
	For	mal Assessments (Title/Date)		Blended Lea	rning	Home Learning
Manufac	ation, design and eval cturing of Prototype N Nodule Theory Test (3	,		ResearchMoodboardCAD	 Research Moodboard Timbers and Polymers Design and Design developr 	
Unit of Work	Knowledge and Sk	cills	Curriculum Links and Seque	encing	National Cur	riculum (including KS2)
Intro to project Lesson 1	 ★ Sustainabilit ★ Research int ★ Iterative des ★ Categories of manufacture timber, sustainabilit 	f timber (softwoods, hardwoods, ed boards), properties & characteristics of ainability factors of timber, joining or timber, finishes for timber	GCSE Link: → 1.1 Investigation of not Wider Curriculum Links: → Links with Art, Geogra → Cultural SMSC Sequencing Links: → 6 Rs across all DT now → Understanding how re design	phy & Science embedded	 Understand developments in design and technology, its impact on individuals, society are the environment, and the responsibilities of designers, engineers and technologists Analyse the work of past and present profession and others to develop and broaden their understanding Use biomimicry design to influence and inspire design ideas and development 	
Responding to a design brief & Specification Lesson 2-4	★ Responding constraints★ Developing	f: Biomimicry Lamp g to a specification - consider , materials and user needs a mood board based on the n, brief and previous research	GCSE Link: → 2.1 NEA Design and D → 7.6.2 Scales of produce → 1:12 The categorisation properties and struction manufactured timber → 7.2.5 The physical chatimber: Wider Curriculum Links: → Careers: (Architecture	tion on of the types, ure of natural and s uracteristics of each	understan identify ar understan them develop sp innovative respond to	cch and exploration, to identify and d user needs and solve their own design problems and d how to reformulate problems given to decifications to inform the design of explorational, appealing products that do needs in a variety of situations ety of approaches [for example, biomimicry centred design], to generate creative ideas

		Sequencing Links: → Understanding Specification - links to All DT areas and future progression	 and avoid stereotypical responses develop and communicate design ideas using annotated sketches, detailed plans, 3-D and mathematical modelling, oral and digital presentations and computer-based tools select from and use specialist tools, techniques, processes, equipment and machinery precisely, including computer-aided manufacture select from and use a wider, more complex range of materials, components and ingredients, taking into account their properties
Drawing Skills Lesson 5-6	 ★ Annotated sketches, design justification and development ★ Exploded drawing ★ Generating ideas - ideation ★ Rendering techniques 	GCSE Link: → 1.17 Communication to present ideas → 7.8.1 Surface finishes and treatments: → NEA: Design & Develop Wider Curriculum Links: → Maths (Scale) Art (use of media)	
Manufacture Lesson 7-10	 ★ Iterative design ★ Apply theme to design outcome ★ Accuracy of corner halving joint ★ Assessment: Final model of Lamp 	 → Career: CAD technician, product design Sequencing Links: → Basic design skills - drawing, perspective, CAD modelling to build onto more progressive techniques in Y8/9 	
Evaluation Lesson 10	 ★ Assessment: Evaluation and annotation against specification ★ Peer and self-assessment ★ Recap skills and knowledge gained so far. ★ Review of design ideas compared to manufacture 	GCSE Link: → NEA: Evaluation Wider Curriculum Links: → English (Structure of an evaluation) Sequencing Links: → Use of spec to evaluate and adapt design proposals	test, evaluate and refine their ideas and products against a specification, taking into account the views of intended users and other interested groups
Manufacture And Evaluation Lesson 11-13	 ★ Finishing of timber ★ Health and safety, use of modelling tools ★ Assessment: Final model of lamp 	GCSE Link: → NEA: Manufacture Wider Curriculum Links: → Maths (Measurement & Scale) → Career: Model maker Sequencing Links: → Introductory making skills to progress onto Y8/9	select from and use specialist tools, techniques, processes, equipment and machinery precisely, including computer-aided manufacture
End of module Test &	 ★ Assessment: End of module test (Knowledge) ★ Review and reflection of marks 	GCSE Link: → Core Theory Wider Curriculum Links:	

Reflection Lesson 14-15
