

A Level Product Design

Cycle 6

Week	Lesson	Topic	Task/project	Spec point	Page No.	Homework	Independent study: 5 hours per week	Assessment
1&2 UNIT 3	1	NEA Sections C;D	NEA: prototyping activities (physical & CAD)				Meeting mini deadlines for NEA	NEA tracking
	2	Unit 3: Performance of wood	Topic 1: stock forms	3.1.2 Performance characteristics of materials: Woods	6	Complete homework sheets for topic 1 Challenge: link investigations into NEA Further challenge: exam question practise	Meeting mini deadlines for NEA	Answers to unit questions
	3	NEA Sections C;D	NEA: prototyping activities (physical & CAD)				Meeting mini deadlines for NEA	NEA tracking
	4	Wasting processes Thermoset polymers and their uses Timber finishes for outdoor use	Multi topics—Exam consolidation/revision	3.1.4 Forming, redistribution and addition processes 3.1.1 Materials and their applications 3.1.3 Enhancement of materials	20 3 17	Mock exam revision (End of Year)	Topic 2: Performance Worksheet & homework sheet	NEA tracking Answers to unit questions
	5	NEA Sections C;D	NEA: prototyping activities (physical & CAD)			Mock exam revision (End of Year)	Meeting mini deadlines for NEA	NEA tracking
	6	Health & Safety Work Act	Discussion and PGOonline—H&S	3.1.9 Health and safety	33	Mock exam revision (End of Year)	Topic 3: Testing & finishing Worksheet & homework sheet	
	7	Unit 3: Performance of wood	Consolidation quiz—end of Unit 3 Test	3.1.2 Performance characteristics of materials: Woods	6	Mock exam revision (End of Year)	Meeting mini deadlines for NEA	NEA tracking Test
	8	Applications of metals and comparisons Suitability of manufacturing processes	Compare task—exam question practice	3.1.1 Materials and their applications 3.1.4 Forming, redistribution and addition processes	2 19	Mock exam revision (End of Year)	Meeting mini deadlines for NEA	NEA tracking
	9	NEA Sections C;D	NEA: prototyping activities (physical & CAD)			Mock exam revision (End of Year)	Meeting mini deadlines for NEA	NEA tracking

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3&4 UNIT 8	1	Unit 8—Processing woods	Topic 1: working with woods	3.1.2 Performance characteristics of materials: Woods	6	Complete homework sheets for topic 1 Challenge: link investigations into NEA Further challenge: exam question practise	Meeting mini deadlines for NEA	Answers to unit questions
	2	NEA Sections C;D	NEA: prototyping activities (physical & CAD)				Meeting mini deadlines for NEA	NEA tracking
	3	Product types using different polymer processes and justifications Environmental impact of single use plastics	Multi topics—Exam consolidation/revision	3.1.4 Forming, redistribution and addition processes 3.2.8 Responsible design	18 46	Mock exam revision (End of Year)	Topic 2: Forming woods Worksheet & homework sheet	NEA tracking Answers to unit questions
	4	How prototypes are used in the design process How testing conditions are managed	Multi topics—Exam consolidation/revision	3.2.4 Design processes 3.1.1 Materials and their applications	43 3	Complete homework sheets for QA & QC—PGOnline Challenge: link investigations into NEA Further challenge: exam question practise	Meeting mini deadlines for NEA	NEA tracking Answers to unit questions
	5	NEA Sections C;D	NEA: prototyping activities (physical & CAD)				Topic 3: Finishing woods Worksheet & homework sheet	NEA tracking
	6	Changing demands of consumers CAD and how it is used	Multi topics—Exam consolidation/revision	3.2.3 How technology and cultural changes can impact on the work of designers 3.1.6.2 Efficient use of materials 3.1.7 Digital design and manufacture	42 28 29	Mock exam revision (End of Year)	Meeting mini deadlines for NEA	NEA tracking Answers to unit questions
	7	Unit 8—Processing woods	Consolidation quiz—end of Unit 8 Test	3.1.2 Performance characteristics of materials: Woods	6	Mock exam revision (End of Year)	Meeting mini deadlines for NEA	NEA tracking Test
	8	NEA Sections C;D	NEA: prototyping activities (physical & CAD)			Research/consolidation—designers Challenge: link investigations into NEA Further challenge: exam question practise	Meeting mini deadlines for NEA	NEA tracking
	9	End of Year AS Mock Exam	Multi topics				Meeting mini deadlines for NEA	NEA tracking

Week	Lesson	Topic	Task/project	Spec point	Page No.	Homework	Independent study: 5 hours per week	Assessment
5&6 UNIT	1	NEA Sections C;D	NEA: prototyping activities (physical & CAD)				Meeting mini deadlines for NEA	NEA tracking
	2	NEA Sections C;D	NEA: prototyping activities (physical & CAD)				Meeting mini deadlines for NEA	NEA tracking
	3	NEA Sections C;D	NEA: prototyping activities (physical & CAD)				Meeting mini deadlines for NEA	NEA tracking
	4	NEA Sections C;D	NEA: prototyping activities (physical & CAD)				Meeting mini deadlines for NEA	NEA tracking
	5	NEA Sections C;D	NEA: prototyping activities (physical & CAD)				Meeting mini deadlines for NEA	NEA tracking
	6	NEA Sections C;D	NEA: prototyping activities (physical & CAD)				Meeting mini deadlines for NEA	NEA tracking
	7	NEA Sections C;D	NEA: prototyping activities (physical & CAD)				Meeting mini deadlines for NEA	NEA tracking
	8	NEA Sections C;D	NEA: prototyping activities (physical & CAD)				Meeting mini deadlines for NEA	NEA tracking
	9	NEA Sections C;D	NEA: prototyping activities (physical & CAD)				Meeting mini deadlines for NEA	NEA tracking

work experience & review week

My Expected Grade				
Teacher Assessed Grade (circle)				
SBE	BE	E	AE	SAE
Comment:				

Student Self Evaluation

WWW	EBI
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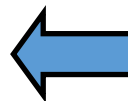
LEARNING TOOLS

Tick when you think you are able to define the meaning of the keyword

KEYWORDS	Forming	Redistribution	Biodegradable	Prototyping
Performance	Processing	Addition	Finishing	Applications
Elastomers	Stock forms	Characteristics	Bauhaus	Art Deco
Memphis	Modernism	Post modernism		

Challenge!

Add more keywords/terms to the table



Why are we exploring forming, redistribution and addition processes

You are researching different processes so that you:

- ◆ Can begin to form an understanding of how manufactures produce a range of products in industry
- ◆ Can explain why different processes are selected
- ◆ Can reference and use this information to help you answer questions in the your examinations and also enhance your design portfolio for the NEA

Why are we researching material properties (timbers focus) & their suitability?

- If you can demonstrate understanding of material properties you will be able to apply this knowledge to both your NEA and the examinations.
- Understanding characteristics of material helps us make appropriate choices for our product concepts.

Why should I have a full understanding of the impact of Design History?

You must have an understanding of how product design is influenced by previous design movements. This is for examination and application of knowledge for your NEA folder.