

A Level Product Design

Cycle 3

Week	Lesson	Topic	Task/project	Spec point	Page No.	Homework	Independent study: 5 hours per week	Assessment
1&2	1	NEA Review	Student self –assessment of NEA & target setting				Work on self set targets for final amendments to NEA	NEA Assessment
	2	Stock forms Composite materials	Examination style questioning Matching worksheet activities Researching & consolidating	3.1.2 Performance characteristics of metals	8 14		Prepare for student presentations on designers Independent study research task	Final NEA Assessment
	3	Designers and their work Phillipe Starck James Dyson Margaret Calvert Dieter Rams Charles and Ray Eames Marianne Brandt	Students give a presentation for different designers—use previous sketchbook work	3.2.2 Design Theory	40	Improve presentations based on peer feedback Challenge: create a set of flash cards for each designer to use as quick reference Further challenge: write an evaluation of how your presentation went	Work on self set targets for final amendments to NEA	NEA Assessment
	4	Scales of production	Independent student research task e.g. QRM Using Textbooks as source of information—reading/literacy task	3.1.6 Modern industrial and commercial practice	27		Work on self set targets for final amendments to NEA	NEA Assessment
	5	Biodegradable polymers	Origins and products worksheets	3.1.2 Performance characteristics of Biodegradable polymers	13		Revision	Responses to examination style questions
	6	Metal Processes Material properties and link to manufacturing process	TEAMS forms quiz—consolidating previous learning exercise	3.1.4 Forming, redistribution and addition processes 3.1.2 Performance characteristics of metals	18 42		Revision	
	7	Elastomers	Worksheets—origins and design link	3.1.2 Performance characteristics of Elastomers	12		Revision	Responses to examination style questions
	8	Paper and board printing processes	PP—video links & examination style questioning	3.1.5 The use of finishes	24		Revision	Responses to examination style questions
	9	Disassembly	Independent student research task	3.1.11- Manufacture, repair, maintenance and	35		Revision	Responses to examination style questions

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3&4	1	Environmental issues & Conservation of energy and resources		3.2.8 Responsible design 3.2.10 National and international standards in product design	37		Specification tracking—highlighting weaker/stronger areas of understanding/knowledge	Responses to examination style questions
	2	Production, planning and control (PPC) networking	Unit 10—PG Online T3—recap	3.1.7 Digital design and manufacture	30			Responses to examination style questions
	3	Tailored revision for gaps in specification knowledge	Multi			Target revision based on gaps in knowledge	Target revision based on gaps in knowledge	Responses to examination style questions
	4	Tailored revision for gaps in specification knowledge	Multi			Target revision based on gaps in knowledge	Target revision based on gaps in knowledge	Responses to examination style questions
	5	Tailored revision for gaps in specification knowledge	Multi			Target revision based on gaps in knowledge	Target revision based on gaps in knowledge	Responses to examination style questions
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5&6 Mock Exam	1	Tailored revision for gaps in specification knowledge	Multi			Target revision based on gaps in knowledge	Target revision based on gaps in knowledge	Responses to examination style questions
	2	Tailored revision for gaps in specification knowledge	Multi			Target revision based on gaps in knowledge	Target revision based on gaps in knowledge	Responses to examination style questions
	3	Tailored revision for gaps in specification knowledge	Multi			Target revision based on gaps in knowledge	Target revision based on gaps in knowledge	Responses to examination style questions
	4	Tailored revision for gaps in specification knowledge	Multi			Target revision based on gaps in knowledge	Target revision based on gaps in knowledge	Responses to examination style questions
	5	Tailored revision for gaps in specification knowledge	Multi			Target revision based on gaps in knowledge	Target revision based on gaps in knowledge	Responses to examination style questions
	6	Mock Exam—In class—1 hour	Multi Topics					Exam assessment
	7	Tailored revision for gaps in specification knowledge	Multi			Target revision based on gaps in knowledge	Target revision based on gaps in knowledge	Responses to examination style questions
	8	Tailored revision for gaps in specification knowledge	Multi			Target revision based on gaps in knowledge	Target revision based on gaps in knowledge	Responses to examination style questions
	9	Mock exam review and improve session						Improvements to questions using markscheme and teacher feedback

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

Student Self Evaluation

WWW	EBI
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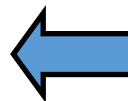
LEARNING TOOLS

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

KEYWORDS	Stock form	Origin	Phillippe Starck	James Dyson
Margaret Calvert	Dieter Rams	Charles and Ray Eames	Marianne Brandt	Elastomers
Disassembly	Biodegradable	Composite	PPC	QRM

Challenge!

Add more keywords/terms to the table



Why are we exploring scales of production e.g. QRM & PPC?

You are researching different scales of production so that you:

- ◆ Can begin to form an understanding of how manufactures produce a range of products in industry
- ◆ Can explain why different methods 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 (polymers 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 Designers and their work?

You must have an understanding of specific designers on the specification. This is for examination and application of knowledge for your NEA folder.