

# A Level Product Design Year 13 Cycle 2

Week	Lesson	Topic	Task/project	Spec point	Page No.	Homework	Independent study: 5 hours per week	Assessment
1& 2	1	NEA	Section D/E- ongoing	3.1.4 Forming, redistribution and addition processes  3.2.10 National and international standards in product design	18  48		Continuous of : Section D/E - practical modelling/ prototyping skills; skilful use of equipment; modifying; improving; accuracy and mathematical measurements ; physical & CAD modelling	Research and Analytical skills  Self / peer assessment  Presentation  Project management
	2	Theory for Mock exam	Product analysis  Suitability of metal for product	3.1.8 Requirements for product design and development 3.1.9 Safety in products and services to the customer 3.2.10 National and international standards in product design 3.1.2 Performance characteristics of materials: Metals	32  33- 34  48  9	Complete homework sheet on theory learnt.  <b>Challenge:</b> complete a exam style question based on topic from lesson and using marking criteria.  <b>Further challenge:</b> Peer or self assess your work with green pen and make improvements needed to consolidate learning.		Research and Analytical skills  Spelling, punctuation and grammar  Response to examination question
	3	Theory for Mock exam	Circular economy  Ethical sourcing for wooden products	3.2.8 Responsible design 3.2.3 How technology and cultural changes can impact on the work of designers	46  42	Complete homework sheet on theory learnt.  <b>Challenge:</b> complete a exam style question based on topic from lesson and using marking criteria.  <b>Further challenge:</b> Peer or self assess your work with green pen and make improvements needed to consolidate learning.		Research and Analytical skills  Spelling, punctuation and grammar  Response to examination question
	4	NEA	Section D/E- ongoing	3.1.4 Forming, redistribution and addition processes  3.2.10 National and international standards in product design	18  48		Continuous of : Section D/E - practical modelling/ prototyping skills; skilful use of equipment; modifying; improving; accuracy and mathematical measurements ; physical & CAD modelling	Research and Analytical skills  Self / peer assessment  Project management
	5	Theory for Mock exam	Feasibility studies: car manufacturing  Product disassembly	3.1.12 Feasibility studies 3.1.11 Design for manufacturing, maintenance, repair and disposal	37  36	Complete homework sheet on theory learnt.  <b>Challenge:</b> complete a exam style question based on topic from lesson and using marking criteria.  <b>Further challenge:</b> Peer or self assess your work with green pen and make improvements needed to consolidate learning.		Research and Analytical skills  Spelling, punctuation and grammar  Response to examination question
	6	Theory for Mock exam	UV varnishing  Smart Materials  Tensol cement: H&S	3.1.5 The use of finishes 3.1.2 Performance characteristics of materials: smart materials 3.1.4.5 The use of adhesives and fixings	24  15	Complete homework sheet on theory learnt.  <b>Challenge:</b> complete a exam style question based on topic from lesson and using marking criteria.  <b>Further challenge:</b> Peer or self assess your work with green pen and make improvements needed to consolidate learning.		Research and Analytical skills  Spelling, punctuation and grammar  Response to examination question
	7	NEA	Section D/E- ongoing	3.1.4 Forming, redistribution and addition processes  3.2.10 National and international standards in product design	18  48		Continuous of : Section D/E - practical modelling/ prototyping skills; skilful use of equipment; modifying; improving; accuracy and mathematical measurements ; physical & CAD modelling	Research and Analytical skills  Self / peer assessment  Project management
	8	Theory for Mock exam	Eco labelling  PPC (production, planning & control)	3.2.10 National and international standards in product design 3.1.7 Digital design and manufacture	48  31	Complete homework sheet on theory learnt.  <b>Challenge:</b> complete a exam style question based on topic from lesson and using marking criteria.  <b>Further challenge:</b> Peer or self assess your work with green pen and make improvements needed to consolidate learning.		Research and Analytical skills  Spelling, punctuation and grammar  Response to examination question
	9	Theory for Mock exam	Open Design  Bauhaus Design School	3.1.10 Protecting designs and intellectual property 3.2.2 Design theory	34  40	Complete homework sheet on theory learnt.  <b>Challenge:</b> complete a exam style question based on topic from lesson and using marking criteria.  <b>Further challenge:</b> Peer or self assess your work with green pen and make improvements needed to consolidate learning.		Research and Analytical skills  Spelling, punctuation and grammar  Response to examination question

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3&4	10	NEA	Section D/E- ongoing	3.1.4 Forming, redistribution and addition processes  3.2.10 National and international standards in product design	18  48		Continuous of : Section D/E - practical modelling/prototyping skills; skilful use of equipment; modifying; improving; accuracy and mathematical measurements ; physical & CAD modelling	Research and Analytical skills  Self / peer assessment  Presentation  Project management
	11	Theory for mock	Metal processes & the environmental impact  Anthropometric data	3.2.8 Responsible design  3.1.4 Forming, redistribution and addition processes  3.1.8 The requirements for product design and development	46  19  32	Revise for upcoming mock exam.		Research and Analytical skills  Spelling, punctuation and grammar  Response to examination question
	12	Mini Mock Exam—In class	End of transition assessments					
	13	NEA	Section D/E- ongoing	3.2.9 Design for manufacture and project management  3.2.1 Design methods and processes	47  39		Continuous of : Section D/E - practical modelling/prototyping skills; skilful use of equipment; modifying; improving; accuracy and mathematical measurements ; physical & CAD modelling	Research and Analytical skills  Self / peer assessment  Presentation  Project management
	14	NEA	Section D/E- ongoing	3.2.4 Design processes 3.2.5 Critical analysis and evaluation  3.2.7 Accuracy in design and manufacture	43  45		Continuous of : Section D/E - practical modelling/prototyping skills; skilful use of equipment; modifying; improving; accuracy and mathematical measurements ; physical & CAD modelling	Research and Analytical skills  Self / peer assessment  Presentation  Project management
	15	NEA	Section D/E- ongoing	3.2.8 Responsible design  3.2.9 Design for manufacture and project management	46  47		Continuous of : Section D/E - practical modelling/prototyping skills; skilful use of equipment; modifying; improving; accuracy and mathematical measurements ; physical & CAD modelling	Research and Analytical skills  Self / peer assessment  Presentation  Project management
	16	NEA	Section D/E- ongoing	3.2.6 Selecting appropriate tools, equipment and processes  3.1.9 Health and safety	45  33		Continuous of : Section D/E - practical modelling/prototyping skills; skilful use of equipment; modifying; improving; accuracy and mathematical measurements ; physical & CAD modelling	Research and Analytical skills  Self / peer assessment
	17	NEA	Section D/E- ongoing	3.1.4 Forming, redistribution and addition processes  3.2.10 National and international standards in product design	18  48		Continuous of : Section D/E - practical modelling/prototyping skills; skilful use of equipment; modifying; improving; accuracy and mathematical measurements ; physical & CAD modelling	Research and Analytical skills  Self / peer assessment  Project management
	18	NEA	Section D/E- ongoing	3.1.4 Forming, redistribution and addition processes  3.2.10 National and international standards in product design	18  48		Continuous of : Section D/E - practical modelling/prototyping skills; skilful use of equipment; modifying; improving; accuracy and mathematical measurements ; physical & CAD modelling	Research and Analytical skills  Self / peer assessment  Project management

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5&6	19	NEA	Section D/E- ongoing	3.2.9 Design for manufacture and project management 3.2.1 Design methods and processes	47 39		Continuous of : Section E - responsible design; H&S; design methods & processes; finishes; protection of intellectual property; industry alternatives for workshop methods, project management; time management; analytical and evaluation skills; examination preparation; prototyping; practical; finishes.	Research and Analytical skills Self / peer assessment Presentation Project management
	20	NEA	Section D/E- ongoing	3.2.4 Design processes 3.2.5 Critical analysis and evaluation 3.2.7 Accuracy in design and manufacture	43 45		Continuous of : Section E - responsible design; H&S; design methods & processes; finishes; protection of intellectual property; industry alternatives for workshop methods, project management; time management; analytical and evaluation skills; examination preparation; prototyping; practical; finishes.	Research and Analytical skills Self / peer assessment Presentation Project management
	21	NEA	Section D/E- ongoing	3.2.8 Responsible design 3.2.9 Design for manufacture and project management	46 47		Continuous of : Section E - responsible design; H&S; design methods & processes; finishes; protection of intellectual property; industry alternatives for workshop methods, project management; time management; analytical and evaluation skills; examination preparation; prototyping; practical; finishes.	Research and Analytical skills Self / peer assessment Presentation Project management
	22	NEA	Section D/E- ongoing	3.2.6 Selecting appropriate tools, equipment and processes 3.1.9 Health and safety	45 33		Continuous of : Section E - responsible design; H&S; design methods & processes; finishes; protection of intellectual property; industry alternatives for workshop methods, project management; time management; analytical and evaluation skills; examination preparation; prototyping; practical; finishes.	Research and Analytical skills Self / peer assessment Presentation Project management
	23	NEA	Section D/E- ongoing	3.1.4 Forming, redistribution and addition processes 3.2.10 National and international standards in product design	18 48		Continuous of : Section E - responsible design; H&S; design methods & processes; finishes; protection of intellectual property; industry alternatives for workshop methods, project management; time management; analytical and evaluation skills; examination preparation; prototyping; practical; finishes.	Research and Analytical skills Self / peer assessment Presentation Project management
	24	NEA	Section D/E- ongoing	3.2.4 Design processes 3.2.5 Critical analysis and evaluation	43 & 44		Continuous of : Section E - responsible design; H&S; design methods & processes; finishes; protection of intellectual property; industry alternatives for workshop methods, project management; time management; analytical and evaluation skills; examination preparation; prototyping; practical; finishes.	Evaluation and Analytical skills Self / peer assessment Presentation Project management
	25	NEA	Section E- ongoing	3.2.4 Design processes 3.2.5 Critical analysis and evaluation	43 & 44		Continuous of : Section E - responsible design; H&S; design methods & processes; finishes; protection of intellectual property; industry alternatives for workshop methods, project management; time management; analytical and evaluation skills; examination preparation; prototyping; practical; finishes.	Evaluation and Analytical skills Self / peer assessment Presentation Project management
	26	NEA	Section E- ongoing	3.2.4 Design processes 3.2.5 Critical analysis and evaluation	43 & 44		Continuous of : Section E - responsible design; H&S; design methods & processes; finishes; protection of intellectual property; industry alternatives for workshop methods, project management; time management; analytical and evaluation skills; examination preparation; prototyping; practical; finishes.	Evaluation and Analytical skills Presentation Project management
	27	<b>NEA DEADLINE</b>	Section E- ongoing	3.2.4 Design processes 3.2.5 Critical analysis and evaluation	43 & 44		Continuous of : Section E - responsible design; H&S; design methods & processes; finishes; protection of intellectual property; industry alternatives for workshop methods, project management; time management; analytical and evaluation skills; examination preparation; prototyping; practical; finishes.	Evaluation and Analytical skills Presentation

<b>My Expected Grade</b>				
<b>Teacher Assessed Grade (circle)</b>				
SBE	BE	E	AE	SAE
<b>Comment:</b>				

### Student Self Evaluation

WWW	EBI
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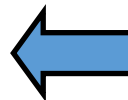
## LEARNING TOOLS

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

<b>KEYWORDS</b>	Anthropometrics	trigonometry	Fairtrade	
FSC	BSI	PCC systems	malleability	
WEEE	FEA	SMA	degradation	
ISO	Ergonomics	disassembly	corrosion	

**Challenge!**

Add more keywords/terms to the table



Why are we evaluating our NEA?

You are evaluating your NEA so that :

- ◆ Can begin to form an understanding of how design changes over time
- ◆ Can develop analytical skills and assess against a design specification
- ◆ Can practise industry practises such as client feedback and iterative design process.
- ◆ Can explain why design changes over time
- ◆ 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 should I have a full understanding of different finishes?

You must have an understanding of how different materials can be finished for both aesthetic & functional reasons. This is for examination and application of knowledge for your NEA folder.