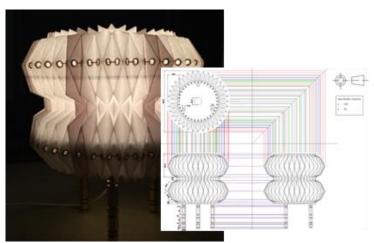


Design & Technology





Course elements

A - Level Course Title	Unit Code	Awarding Body
DESIGN AND	7552	AQA
TECHNOLOGY:		
PRODUCT DESIGN		
A-Level Units:		
Paper 1		
What's assessed	How it's assessed	Questions
Technical principles	Written exam: 2 hrs 30 mins	Short answer
	• 120 marks	Extended response
	• 30% of A-level	
Paper 2		
What's assessed	How it's assessed	Questions
Designing and making	Written exam: 1 hour and 30	Mixture of short answer and
principles	minutes	extended response questions.
	• 80 marks	Section A:
	• 20% of A-level	Product Analysis: 30 marks
		Up to 6 short answer questions
		based on visual stimulus of
		product(s).
		Section B:
		Commercial manufacture: 50
		marks
		Mixture of short and extended
		response questions
Non-exam assessment (NEA)		
What's assessed	How it's assessed	Evidence
Practical application of	Substantial design and make	Written or digital design portfolio
technical principles, designing	project	and photographic evidence of final
and making principles and	• 100 marks	prototype
specialist knowledge	• 50% of A-level	



Why choose A-level Design and Technology: Product Design?

This creative and thought-provoking qualification gives students the practical skills, theoretical knowledge and confidence to succeed in a number of careers, especially those in the creative industries. They will investigate historical, social, cultural, environmental and economic influences on design and technology, whilst enjoying opportunities to put their learning in to practice by producing products of their choice. Students will gain a real understanding of what it means to be a designer, alongside the knowledge and skills sought by higher education and employers. What do I need to get on the course?

A grade 6 or above in one of the GCSE Design & Technology subjects is desirable. What will I be able to progress to?

The study of Product Design will provide a useful foundation for a variety of degree courses including Architecture, Engineering, Product Design and Industrial Design.

Year 12 Indicative delivery plan

1.14 Design 1.9 Health
9
C4 0
1.2 Per
1.3 Enh
1.3 Enh
1.4 Form
1.4 For
1.4 For
1.5 The
1.5 The
1.6 Mode
1.6 Mode
1.7 Ogtal
1.7 Digtal
1.8 The
1.8 The
1.10 Pm
1.10 Pm
1.11 Design
1.11 Design for
1.12 Feasibility
1.12 Fe
1.13 En
Past Pag
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Year 12 Design & Make short project

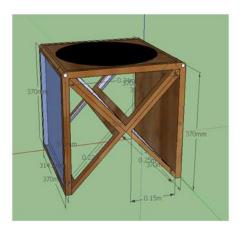


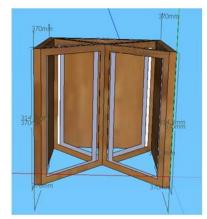
Year 12 Design & Make NEA style project – moving furniture

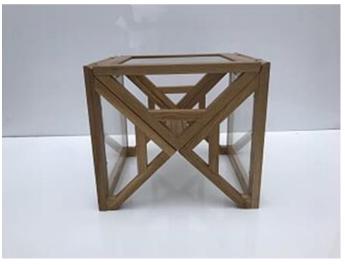


Year 13 NEA – moving furniture





















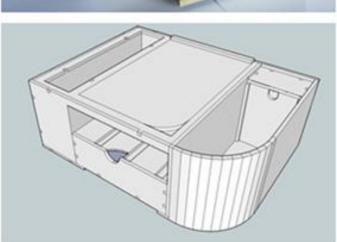


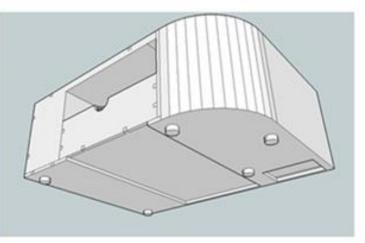
Year 13 NEA – moving furniture

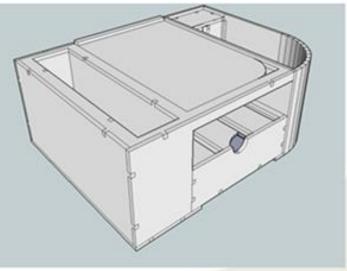
Final Product

I wanted to express my final product with all modifications included as a three point perspective on CAD, in order to show the newly improved product in a simple yet detailed form so that any potential recreations can follow an accurate model of the unit once it haid been changed. Unlike my previous drawings I decided to include even the comb joints.









Year 13 NEA – moving furniture



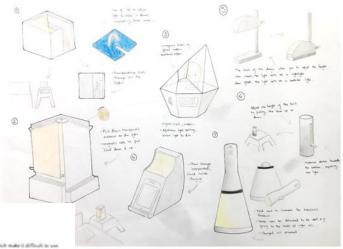
Design & Technology

Year 13 NEA – Lighting – Development of Design Proposals



Blue Sky Ideas

After the majority of my research, I began to sketch my initial ideas for my product. I made sure to have a variety of different designs instead of concentrating on one specific concept. After my sheet of ideas, I then consulted with my client to receive her feedback about her likes, dislikes & any personal amendments she would make to the designs...



I like the idea of no because having book torage as well as the ligh would be very handy for me. I do feel like the raduct is too clunky & would take up the majority of my bedside table. I'm n sure about using a fid, sams like affort to me..."

oncept. This would robably be a product tha ould be out of my price range as I assume the production costs will be high..."

> Number 2 & 5 are my would really enjoy, and rould allow me to contro my lighting easily. 5 is the rast suitable for both a bedside light and a rightlight. If multiple sidered, this would be ny favourite concept by

My client wave my mixed feedback, which has encouraged me to further branch out more ideas to nake sure I am able to further develop a range of

Blue sky idea 2



to reaction to my cheek leadline's about this design, I decided to enough it to use if the ownell function and similar would extudily mich and to further use if my client is etherhold, by a 303 months of this concess.



early that winds allow the fit to phose through it. the bottom, the only light that mages is denigh the top. giving the light a nightlight



"This compact of having in fight which can be used for both a lamp and a rightlyte is something that really attects me, and the use of using different materials for different elements of light is an idea I am intrigued by-

on too firmy and cant parent the weight of the ight, and the function of ing the light alrest is self fieldly to mod with...

After encodelling and receiving feethers, I came to the conclusion that there are usuall aspects of the model which make it difficult to you bush as the visites, which would need note support to allow the light to be supported. However, as a concept, I had confident that the obtain



To purhose this markenium, I took those

bottom of the model. The dimensions of

allow upon at the bottom of the model

as well as beging that alignment at the

top, hence the inchespular shape includ-

Youth in, push our components often used in selection and blad them in at the

the model had to fit amount these to

of it being a nonest.

I discided to model this blue sky idea to get a sense of the scale. of the design and to put the function in action to see if it would mally work as a deadopped product. Additionally, my thint has tited the models with comcepts of a way to have the product. suitable as a nightlight and a brobide lable light.



to plow. (25 nightlight what). I distribed that from my blue site shoult, having a namel from

would create many shadows with the light, so I reduced it to such come to allow arough support for the light to function. (It) the light at it's maximum height soil.



into my influention phot very well, and the mechanism is may yet distant. I like the idea of having the small gap initially which would be prefect to alone with an emphil.

air though it is minimarks, it is off a bit shanks for a divige, care who not is like of the inner light design, yet that could definitely be

Southark about from designs, I had confident I have payed an idea of what my client worth which will fit the speci of this product and fire mady to deading my duriges. Letter,











The shadin, whose added after I made the first model. I disciplit added some ford of shading could dim the light can change the hardways of the light output. And make it more relating. As the client liked this shape a lot I'm going to experiment more with geometric chapes and smart design.

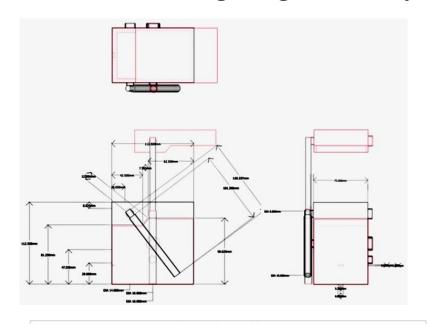


y in this design ow well it would portability within use to house.

like this design a for because the recomment in it is manual but effective. The direction of light can be shifted easily. As toxin, the short mentioned I would change the wooden faining to more of an interesting materials like a sliver or copper faming. The light casing would need to be base out and gisted together using a translucent acrylic



Year 13 NEA – Lighting – Development of design prototypes





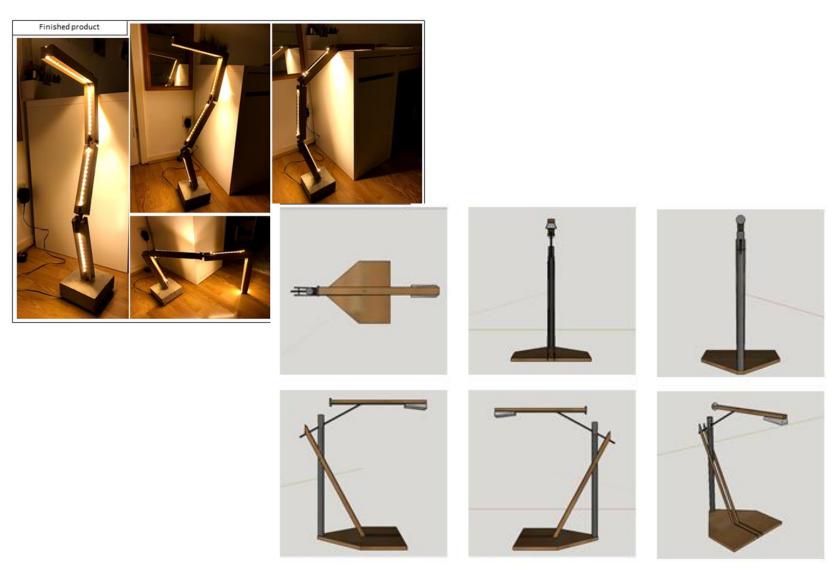








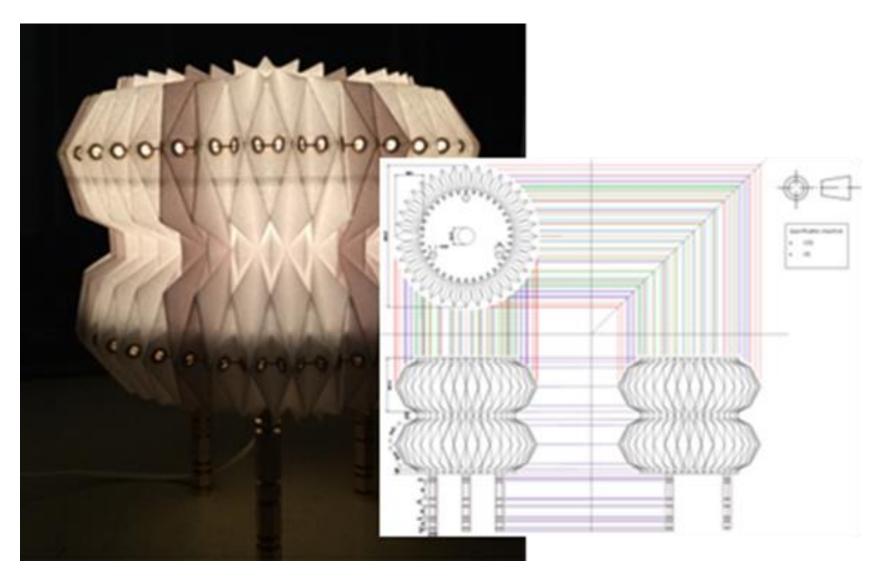
Year 13 NEA – Lighting – Development of design prototypes



Design & Technology

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Year 13 NEA – Lighting – Development of design prototypes



Books & resources



