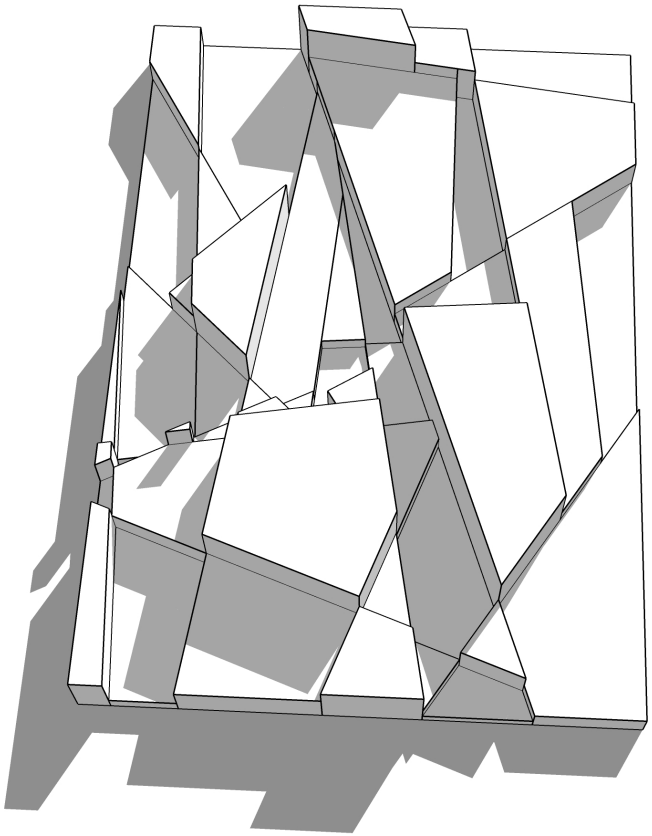
Product Design Portfolio
Marcus Croucher

University of Lincoln



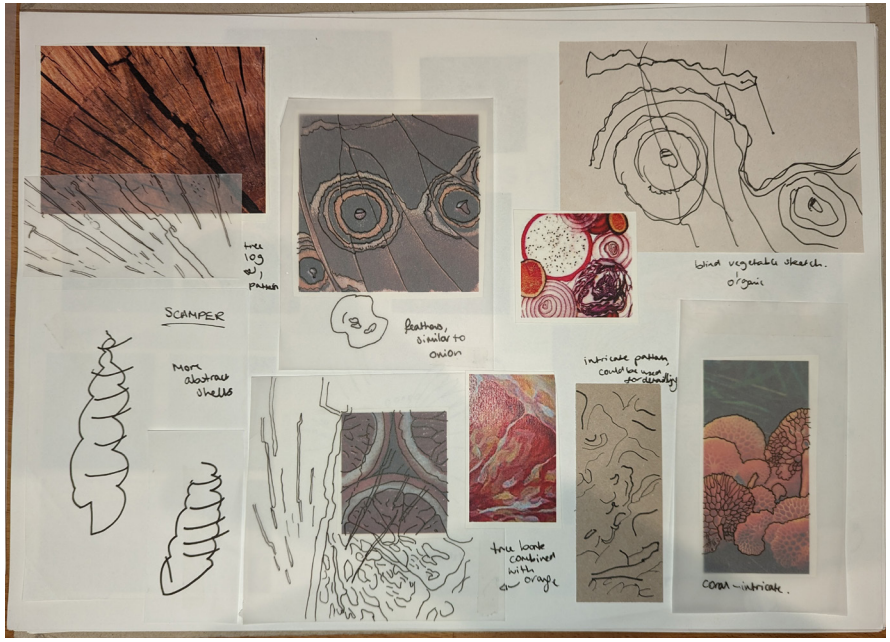
As a naturally inquisitive person, I'm fascinated by the objects and everyday items around me. I always question 'why?' when looking at things, and try to understand how they came to be.

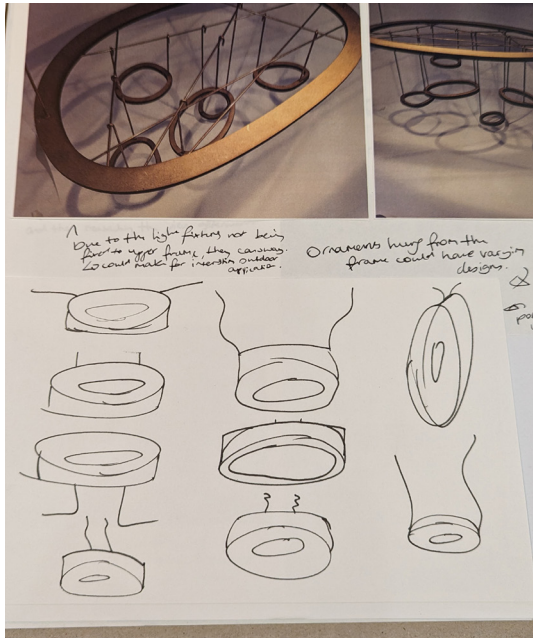
Design, especially product design, is so important. As human beings we're constantly interacting with the work of designers, and the quality of their work affects how much effort goes into those interactions.

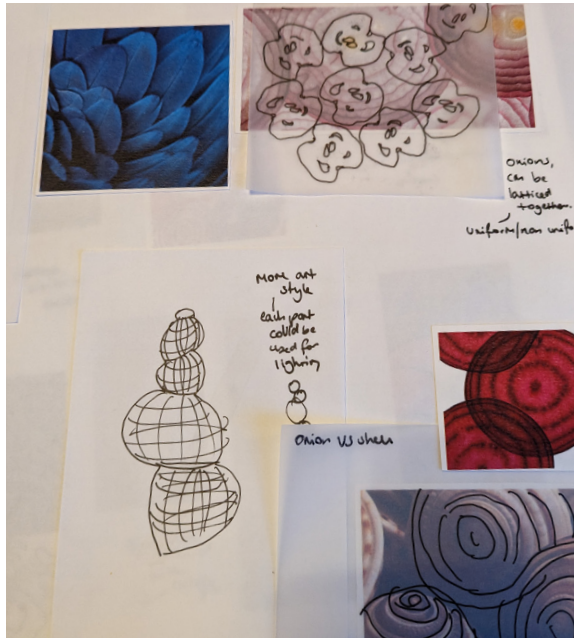
How designers shape our relationship with the world intrigues me deeply, and designing user-friendly and sustainable products, and positive experiences, is what I'd love to do for my career.

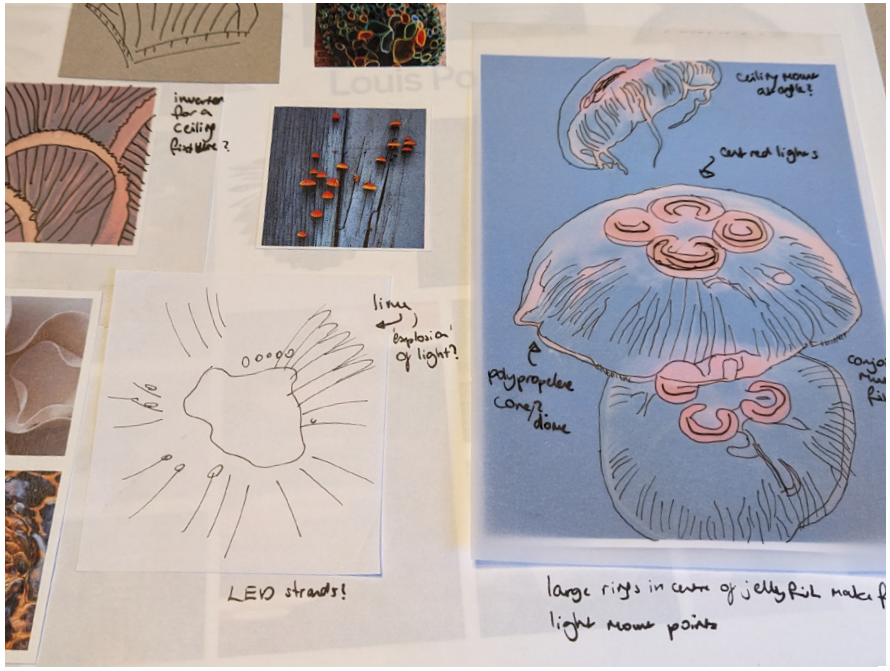
The process of designing and prototyping is one I enjoy and find very rewarding. During my A-Level design course I embarked on several different design projects, both product-based and architectural, and have laid out some of these projects in this portfolio.

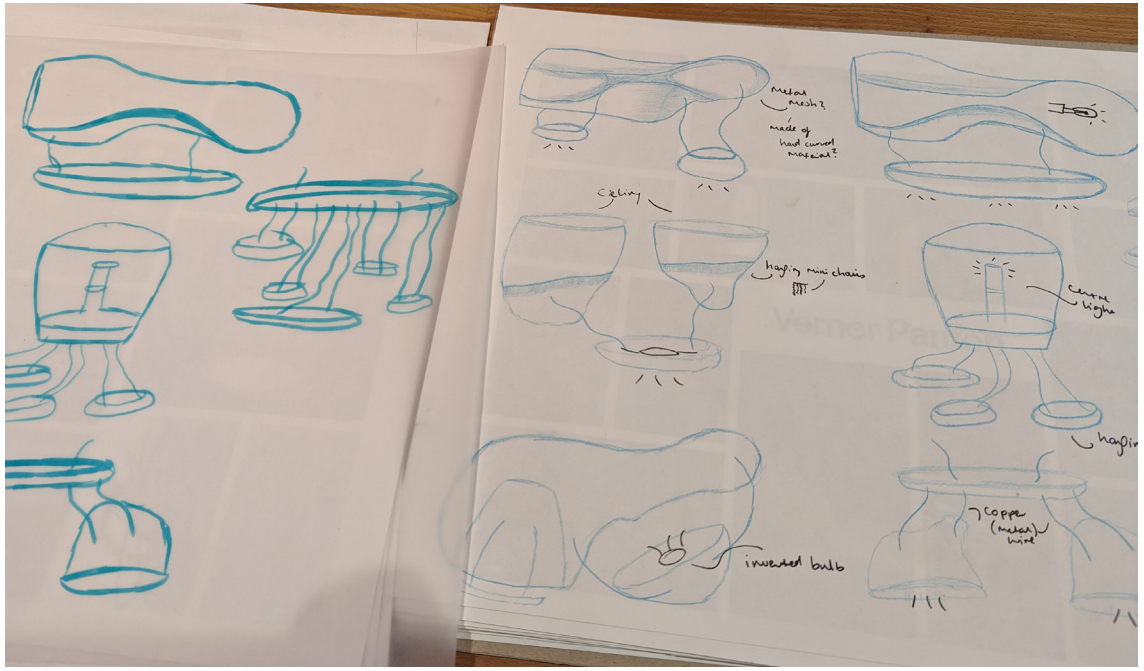


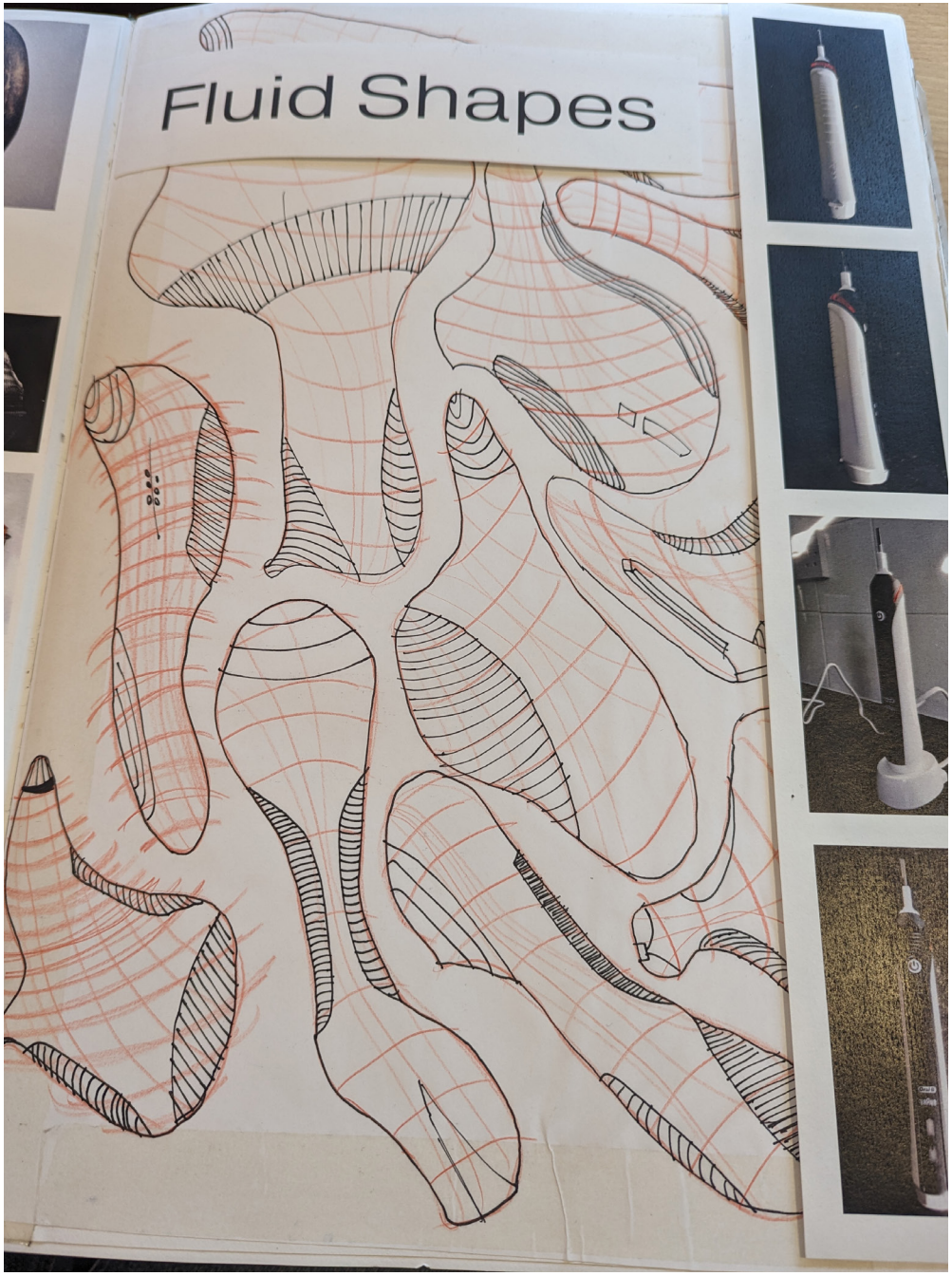

SCAMPER
Mort abstract shells
blind vegetable sketch.
organic
feathers, similar to onion
intricate pattern could be used for diversity
tree bark combined with orange
coral - intricate.

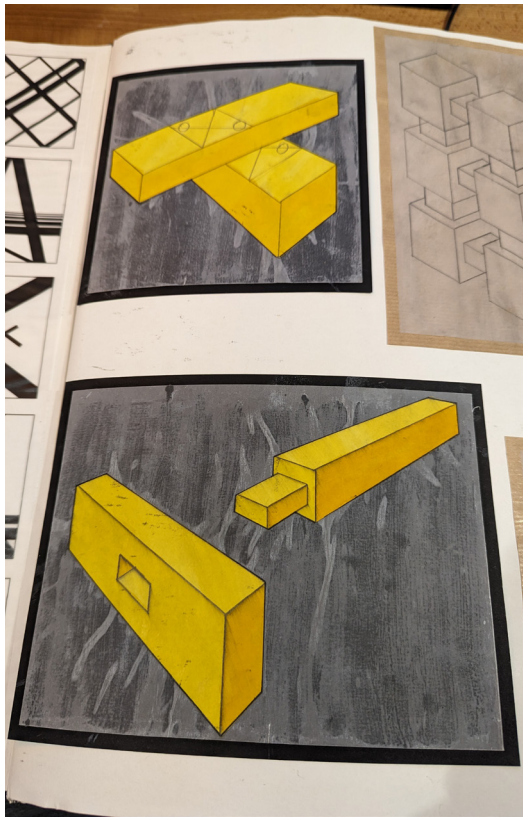

Due to the light fixture not being flush to upper frame, they can swing. So could make for interesting outdoor appliance.
Ornaments hung from the frame could have varying designs.

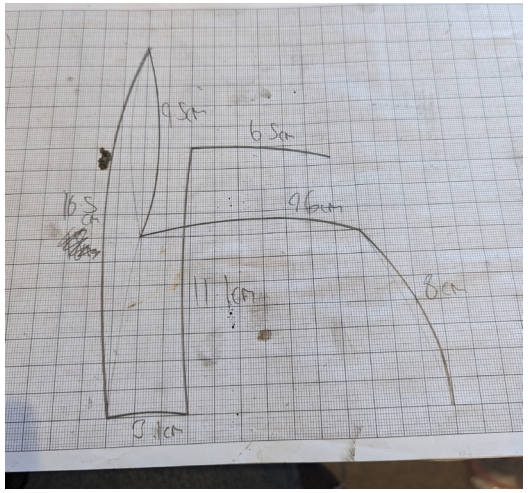

onions, can be layered together.
uniform/non uniform
Mort art style
Each part could be used for lighting
Onion VJ shells

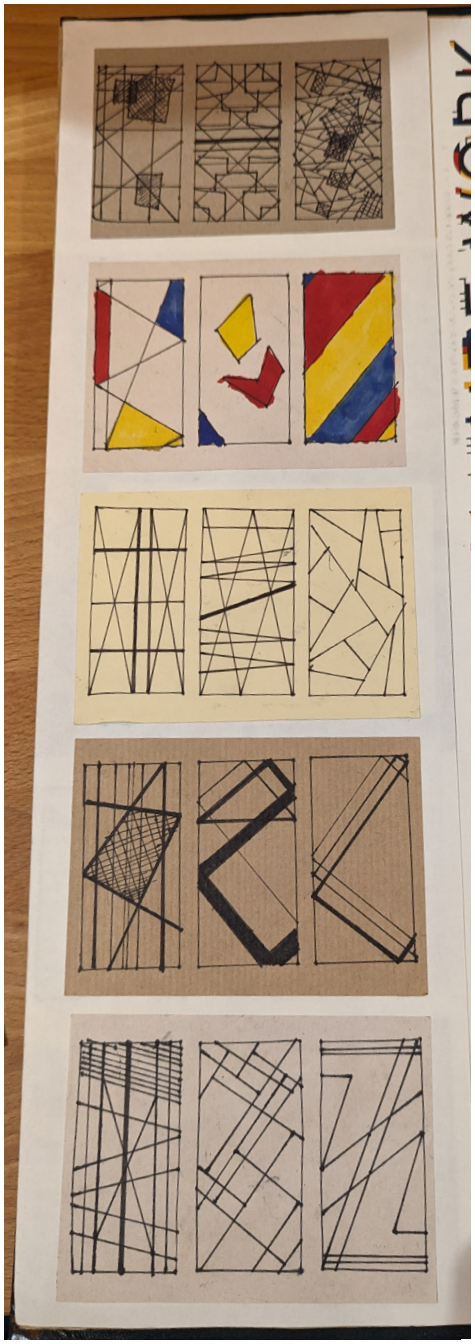

inverted for a ceiling fixture?
lines
'explosion' of light?
LED strands!
ceiling mount at angle?
Centre red lights
polypropylene core? done
large rings in centre of jellyfish make f
light mount points


metal mesh?
made of hard curved material?
ceiling
hanging mini chains
centre light
inverted bulb
copper (metal) wire





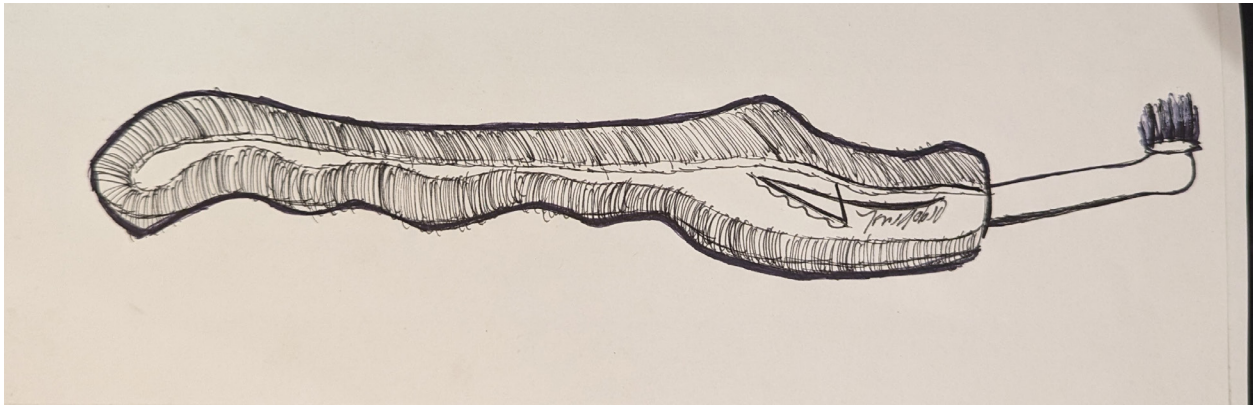


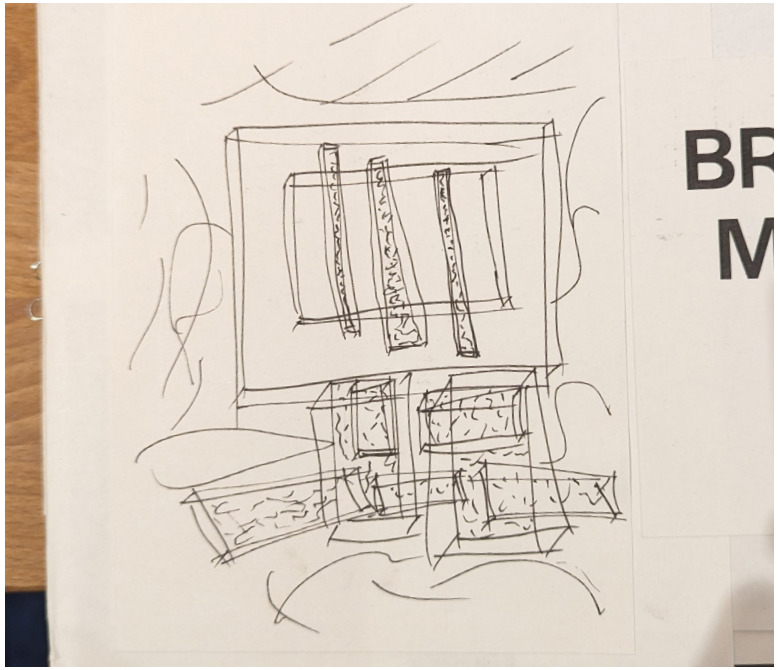


Sketches | Initial ideas, projections

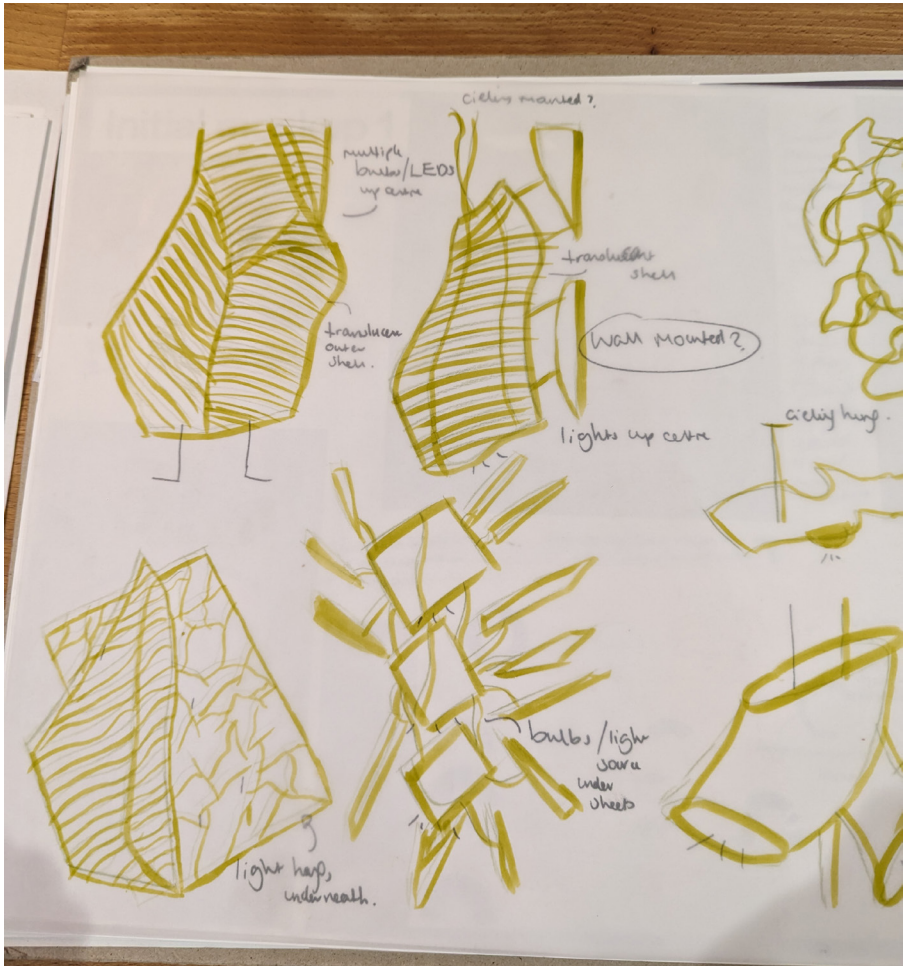


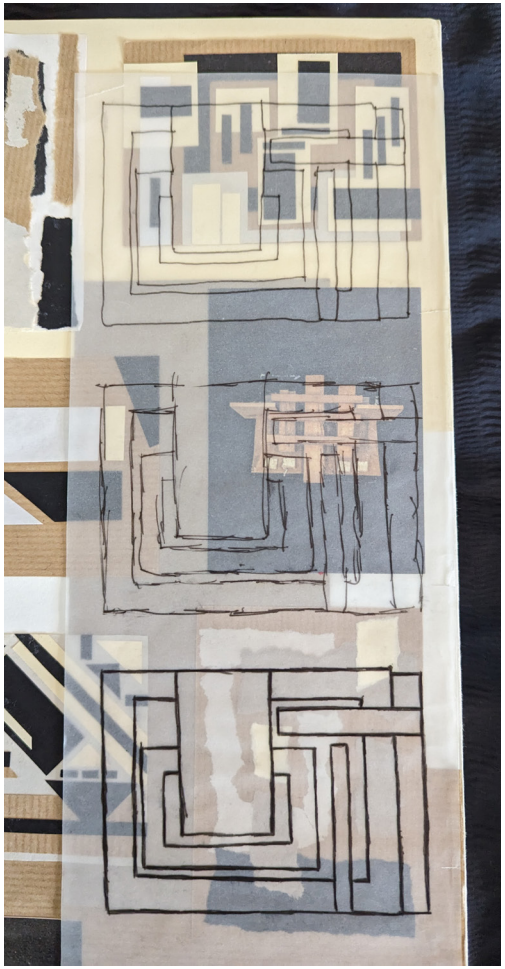




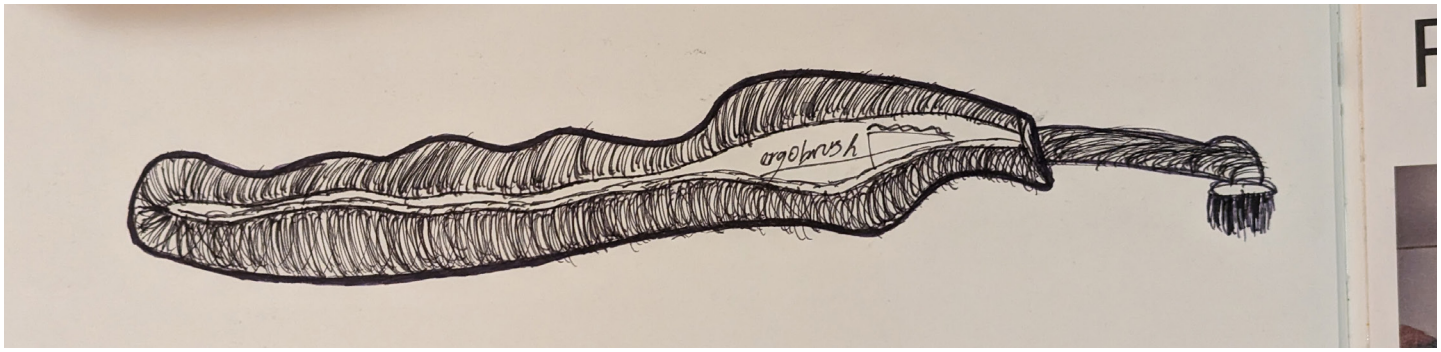


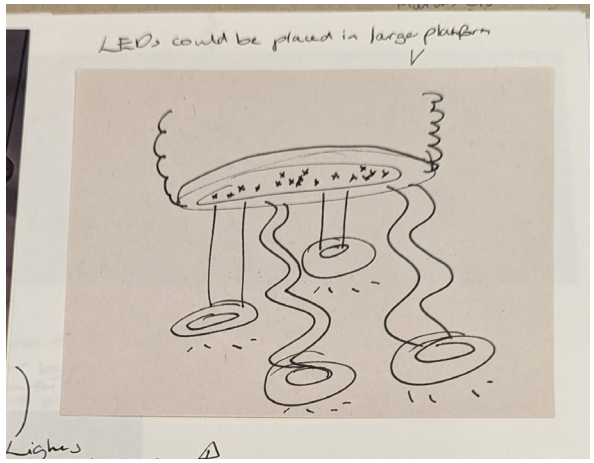
Sketches | Initial ideas, product drawings, logo designs



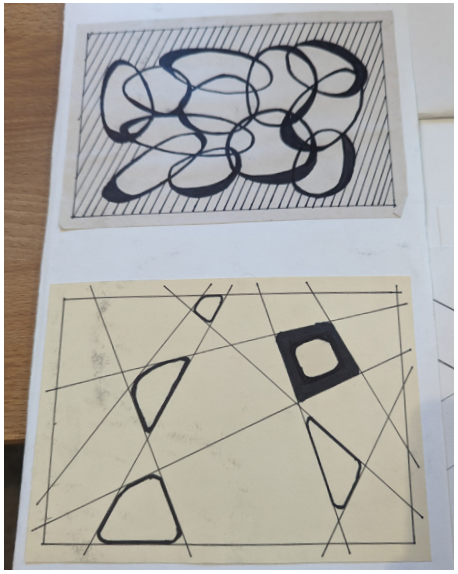


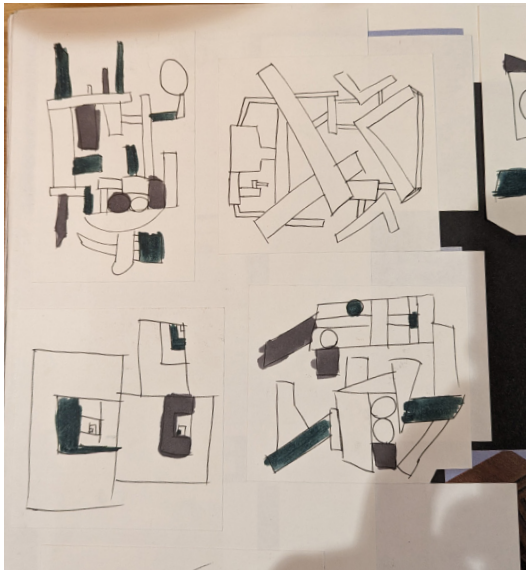


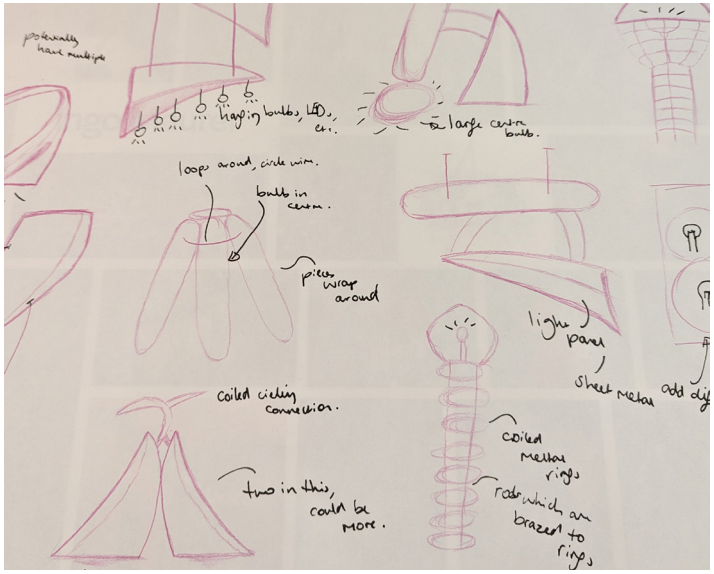




Sketches | Initial ideas, product drawings

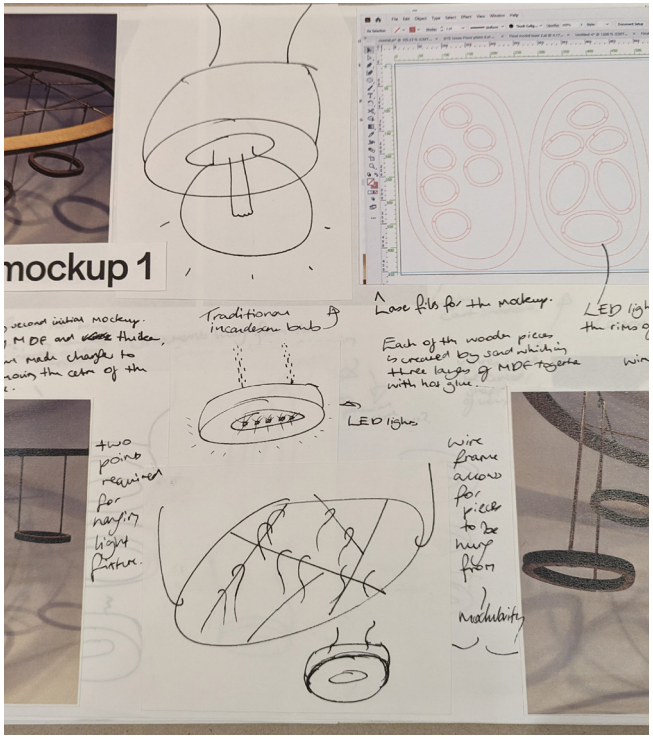


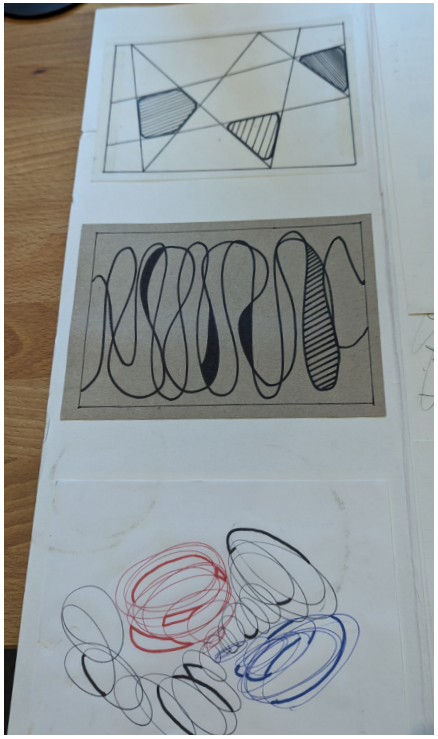


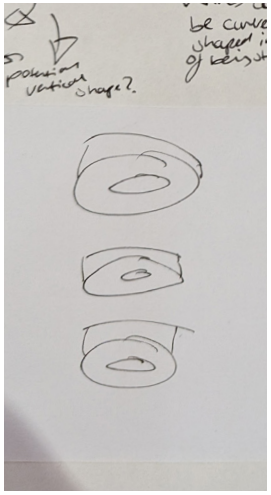

potentially have multiple
hanging bulbs, LED, etc.
to large centre bulb.
loops around, circle wire.
bulb in centre.
piece wrap around
light panel
sheet metal
add dif
coiled ceiling connection.
coiled metal rings
two in this, could be more.
rods which are brazed to rings

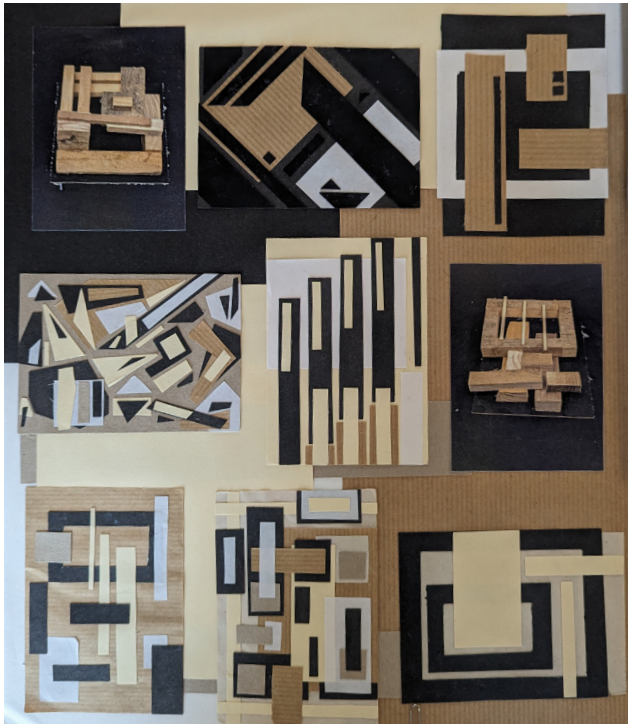
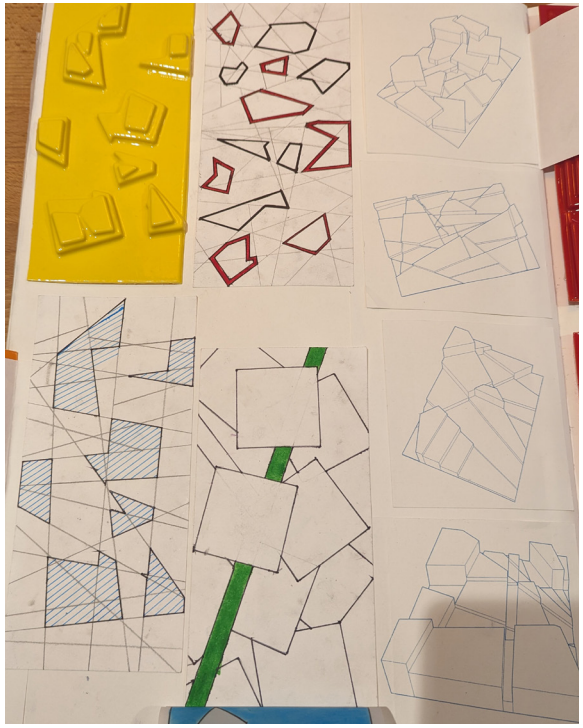
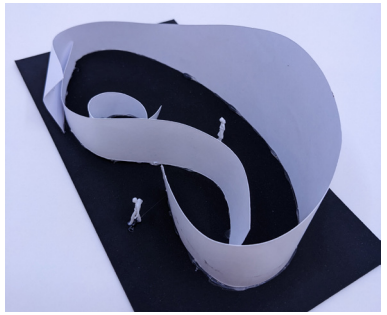





mockup 1
Traditional incandescent bulb
Each of the wooden pieces is created by sandwiching three layers of MDF together with hot glue.
LED lights
two point required for hanging light fixture.
wire frame around for piece to be hung from

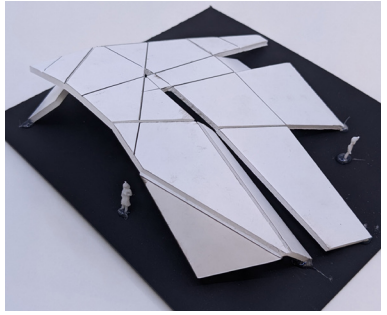
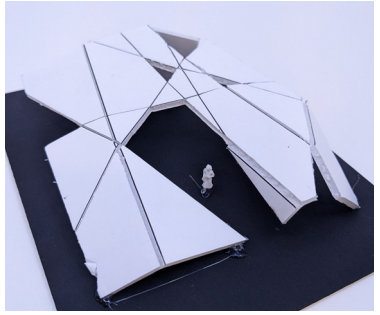


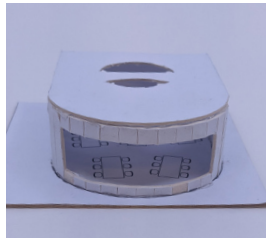
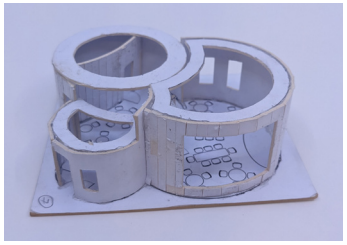




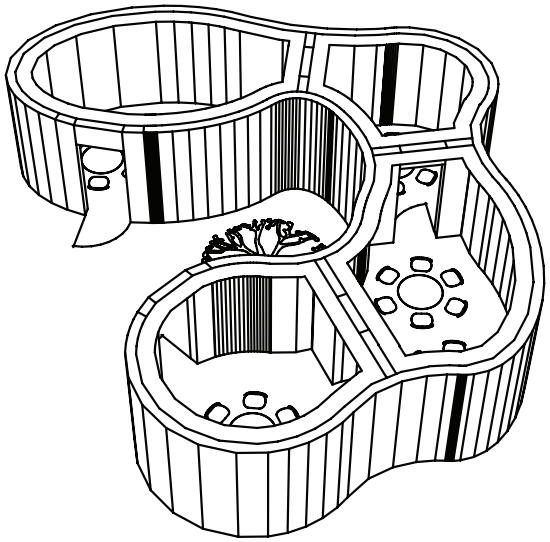


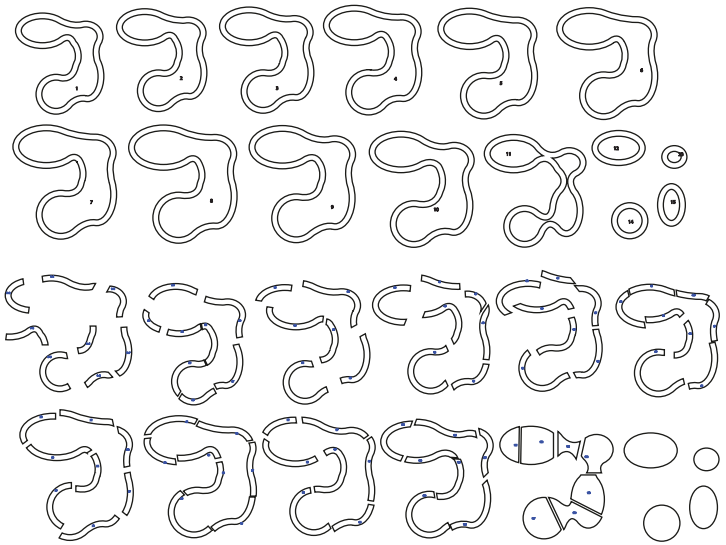




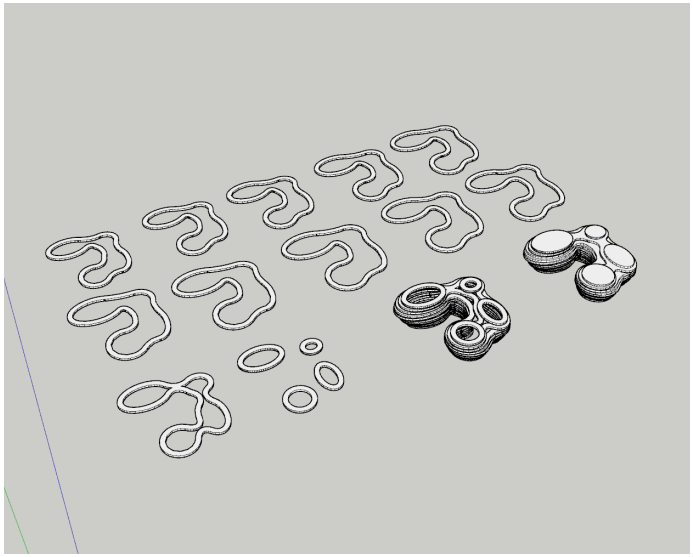





Projects | Component 1 - Initial ideas, sketches and 1:100 scale models for pavilion

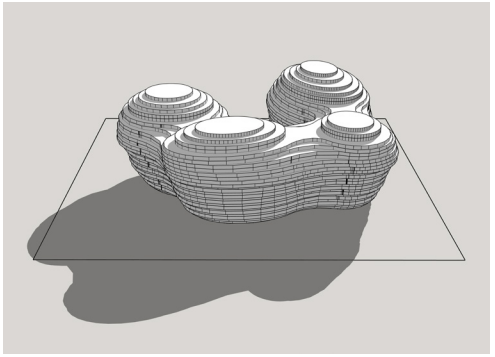


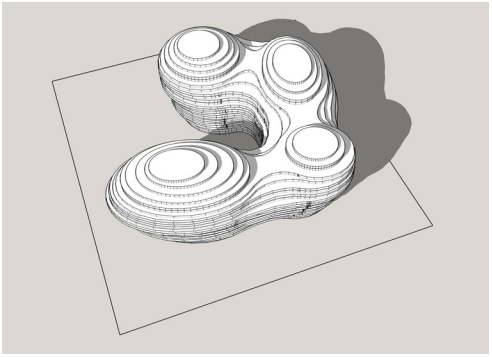


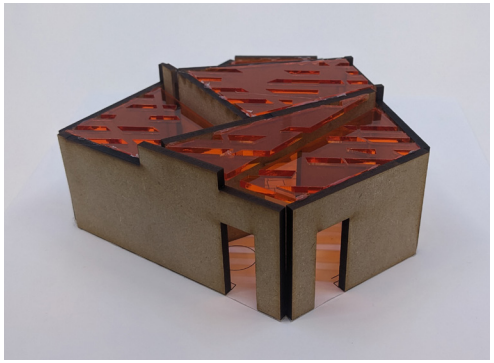


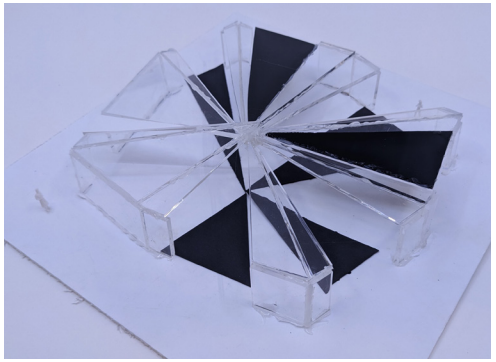


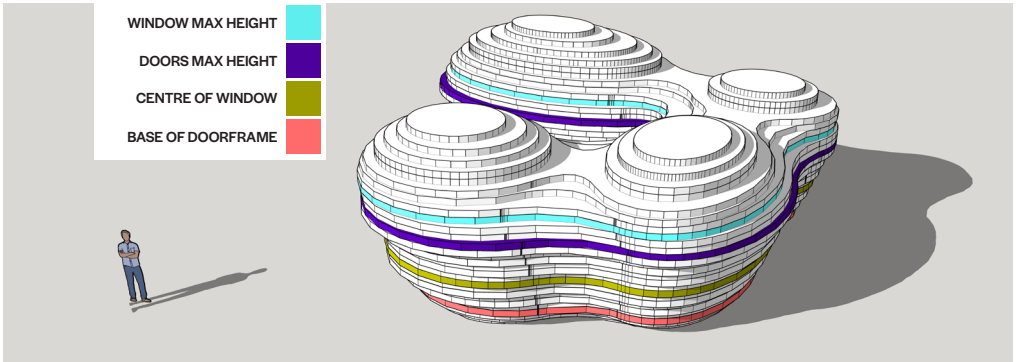


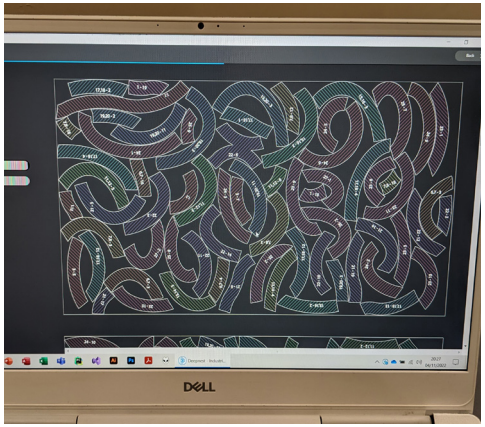


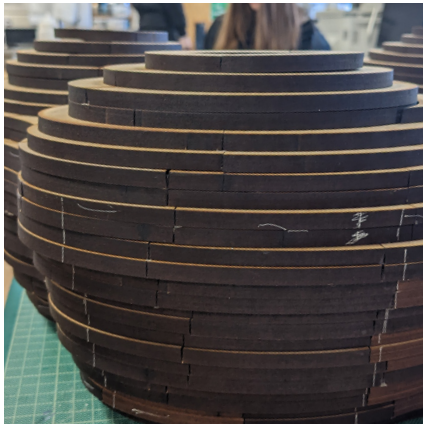
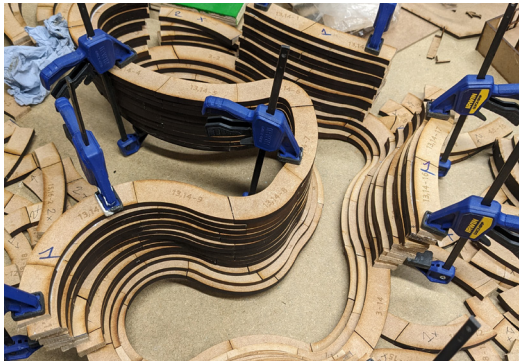




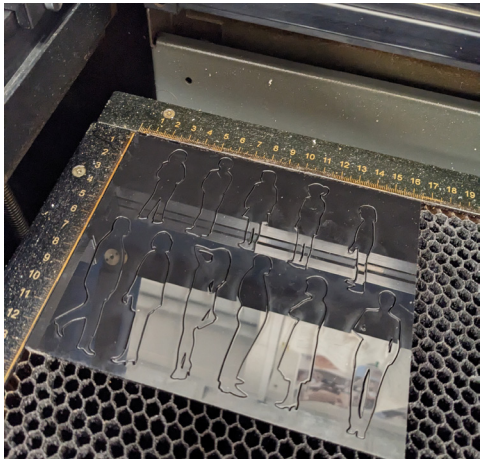



WINDOW MAX HEIGHT
DOORS MAX HEIGHT
CENTRE OF WINDOW
BASE OF DOORFRAME


DELL

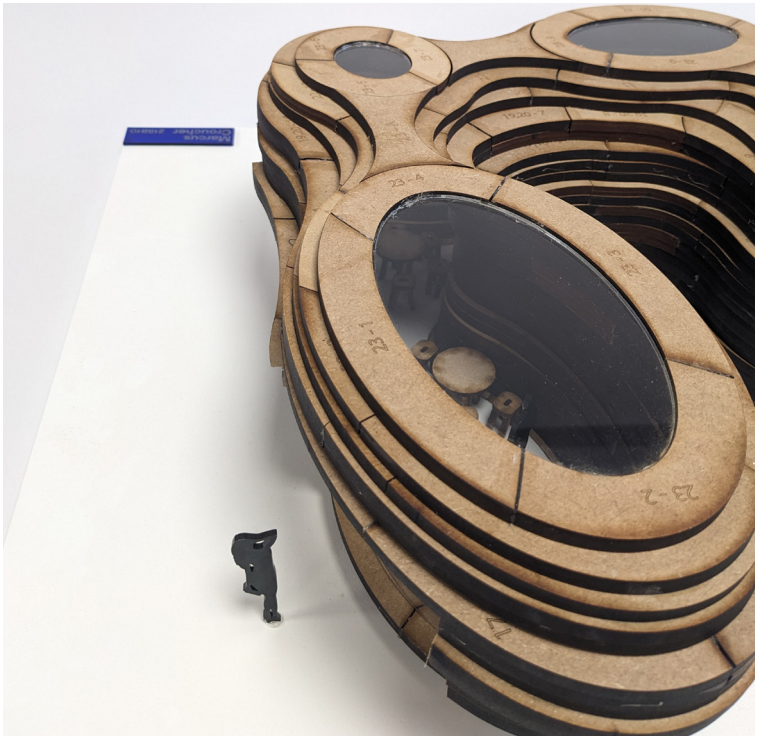





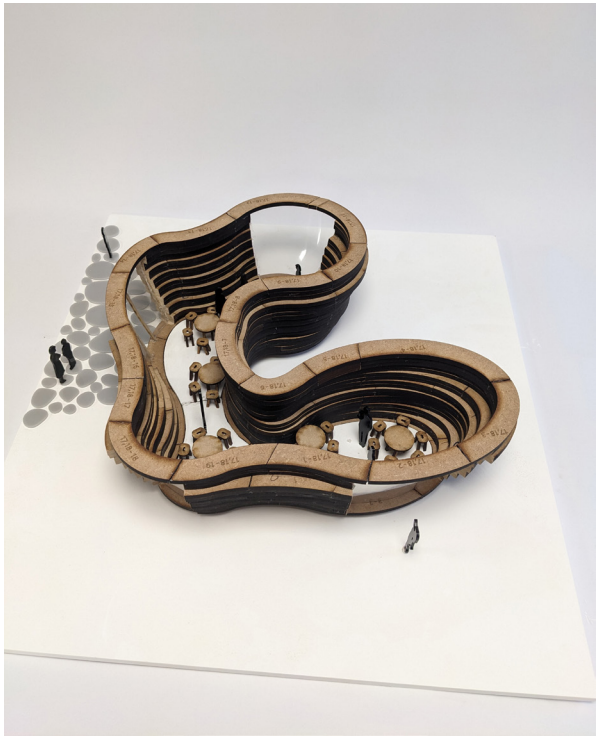





IRWIN
QUICK-GRIP





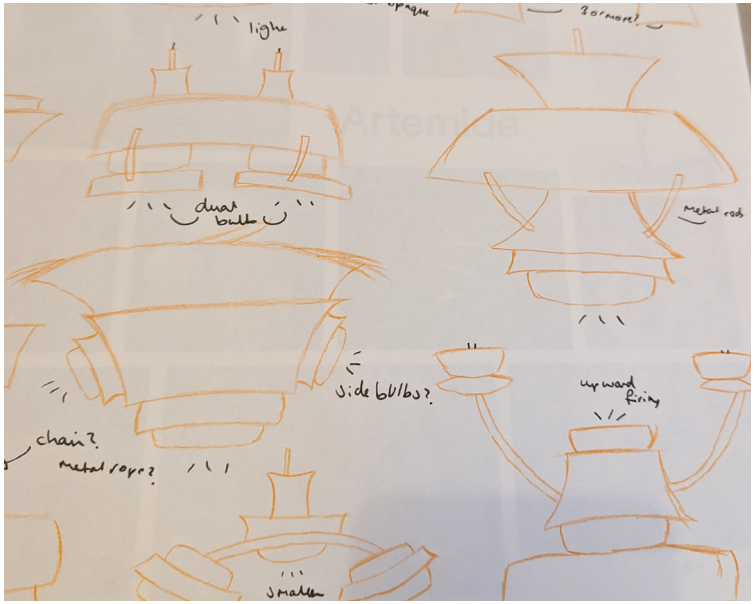




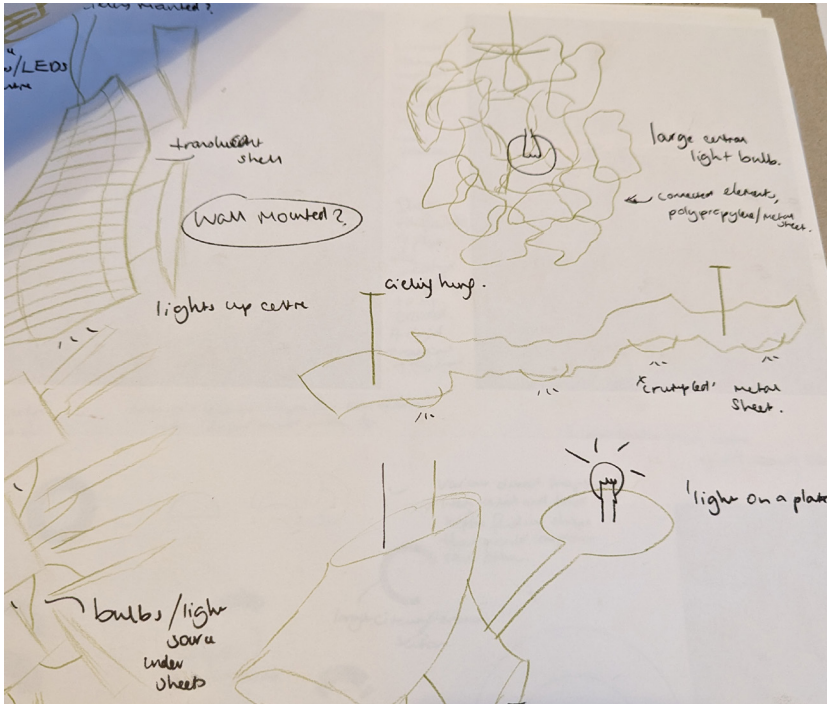

17,18-2
17,18-3


17,18-7
17,18-8


onions, can be latticed together.
uniform/non uniform?
More art style
each part could be used for lighting
onion VS shells


light
dual bulb
Metal rods
side bulbs?
upward fixing
chain?
metal rope?




translucent sheet
large central light bulb.
connector elements, polypropylene/metal sheet.
WALL MOUNTED?
lights up centre
ceiling hung.
'crumpled' metal sheet.
light on a plate
bulbs/light source under sheets


feathers, similar to onion
blind vegetable sketch. organic
intricate pattern could be used for shading
true bonte combined with orange
coral - intricate.



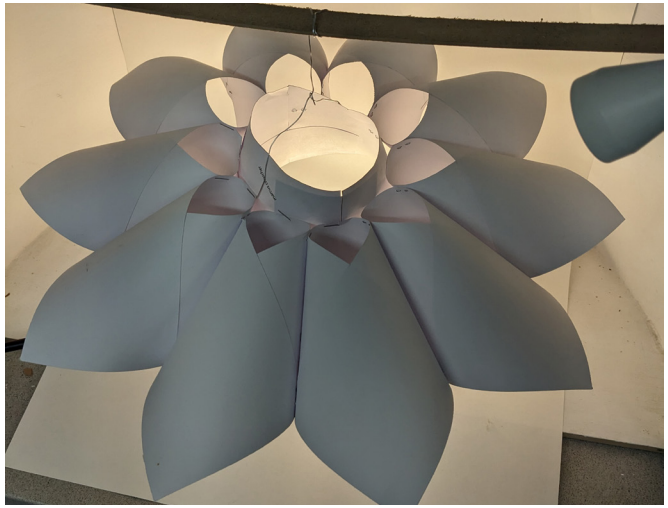


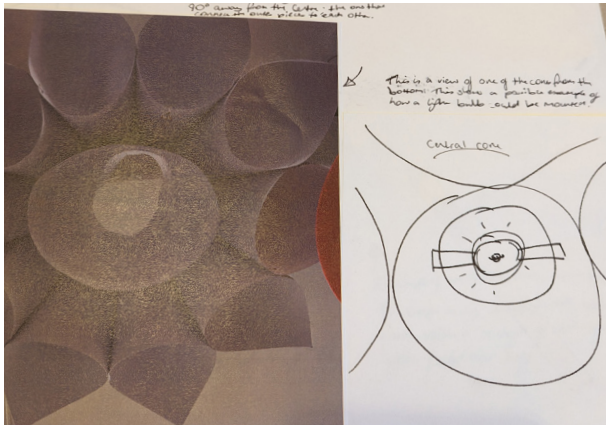


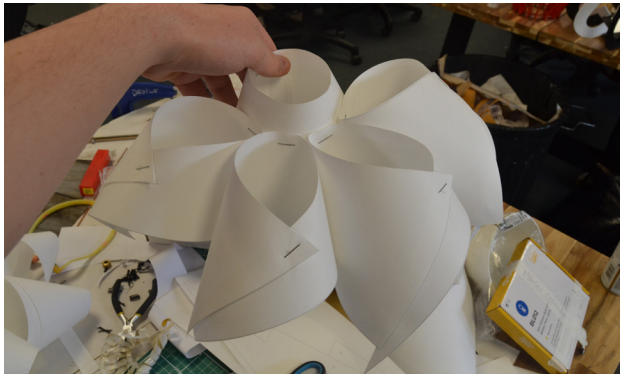




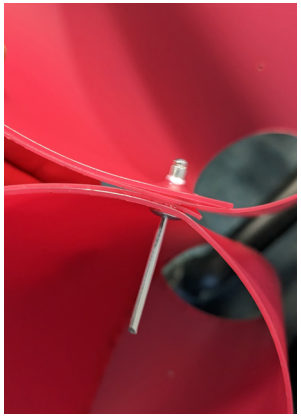


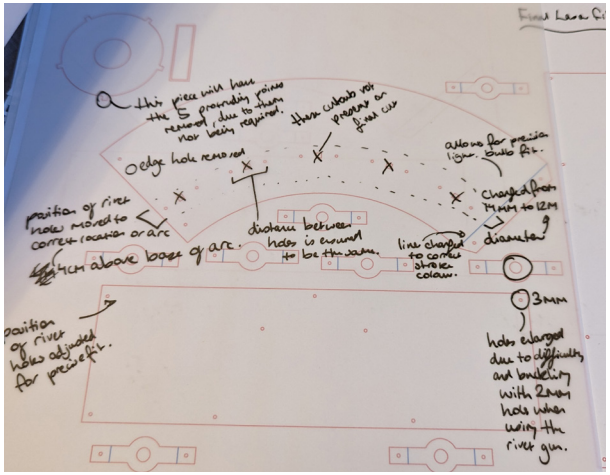



This is a view of one of the cones from the bottom, this shows a possible example of how a light bulb could be mounted
Central cone

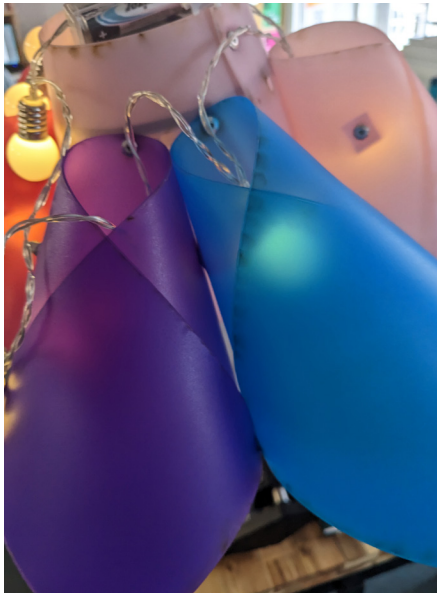




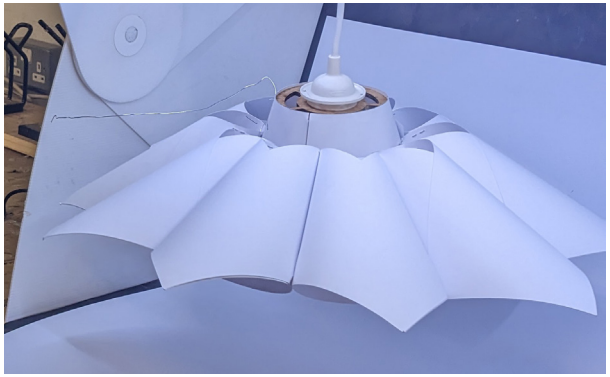


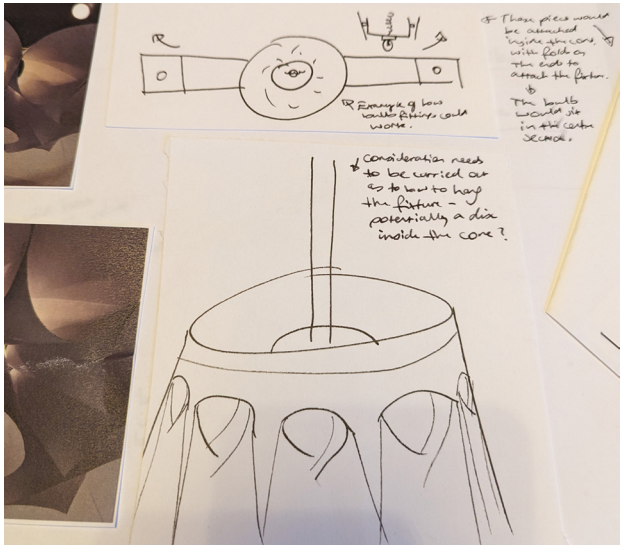

this piece will have the 5 providing prime removed, due to them not being required.
these cutouts for possibly on final cut
edge hole removed
allowe for precise light bulb fit.
changed from 14MM to 12M
position of rivet holes moved to correct location or arc
distance between holes is ensured to be the same.
line changed to contrast stroke colour.
4cm above base of arc.
3mm
position of rivet holes adjusted for precise fit.
holes enlarged due to difficulty and inability with 2mm holes when using the rivet gun.



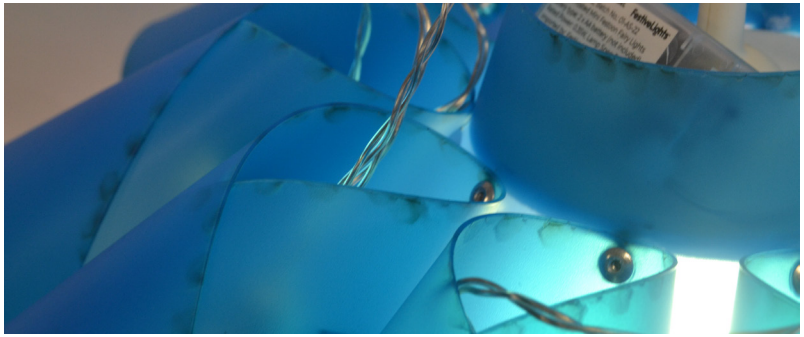







consideration needs to be carried out as to how to hang the fixture - potentially a dia inside the cone?









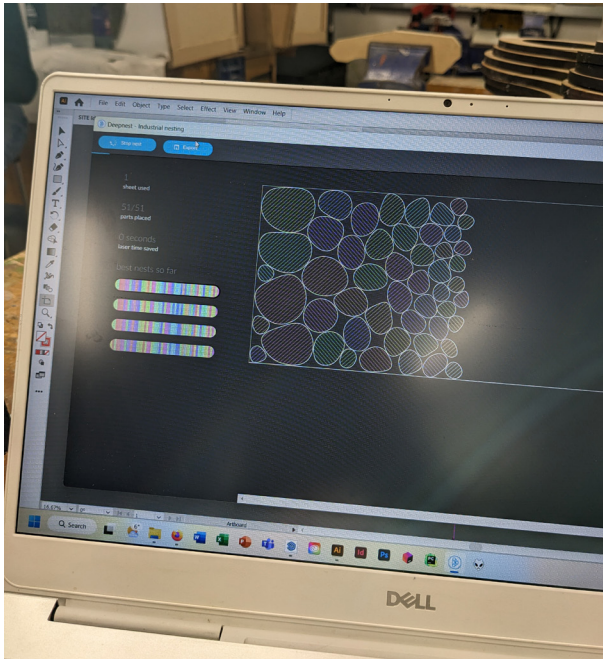


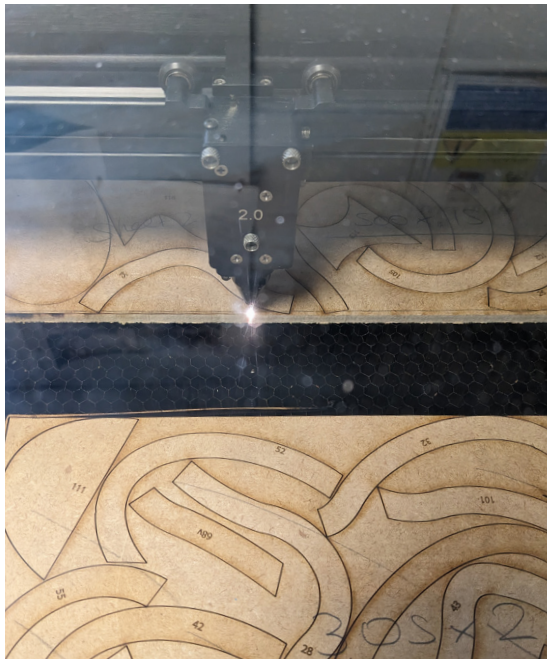









DELL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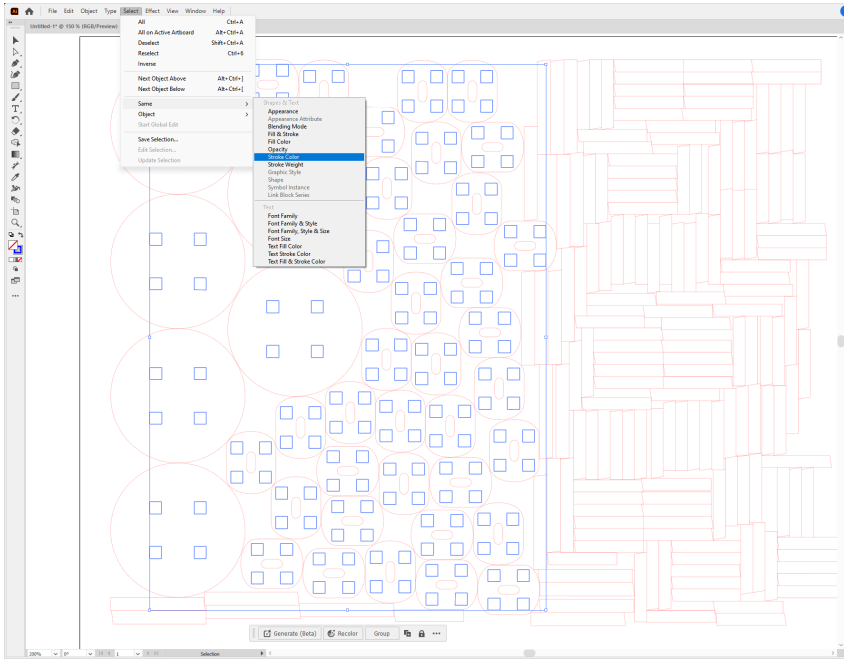
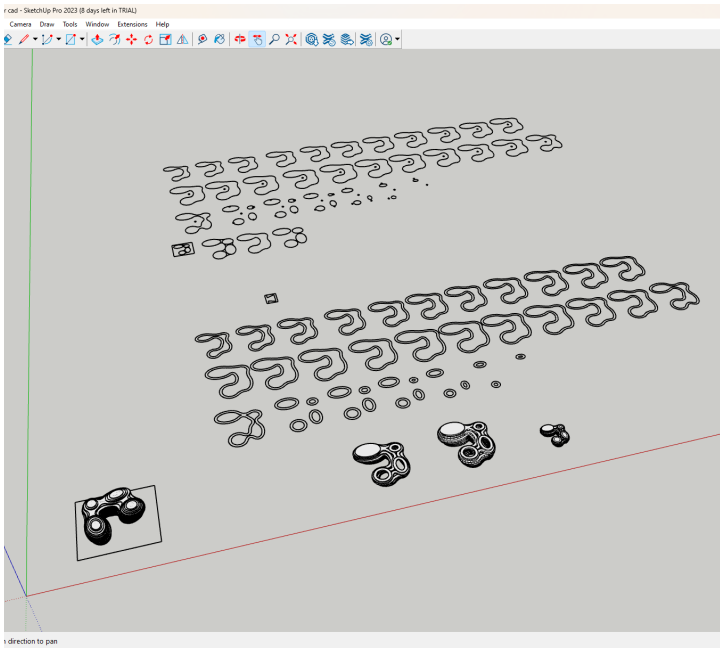
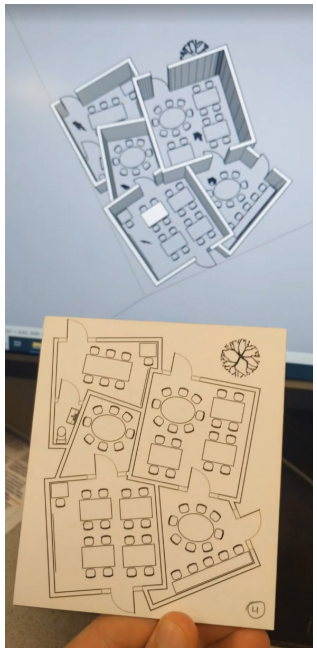
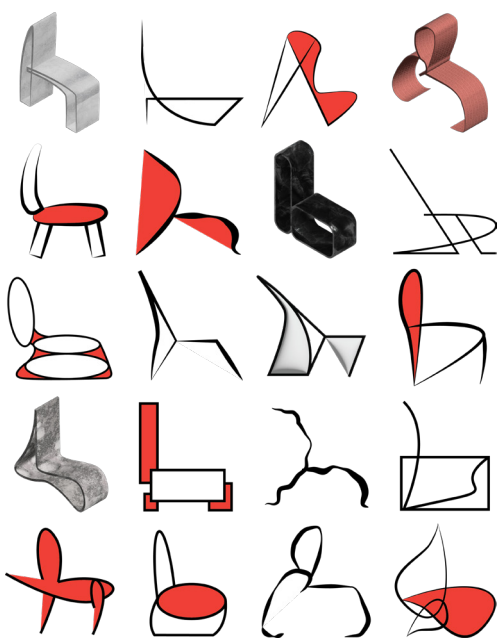




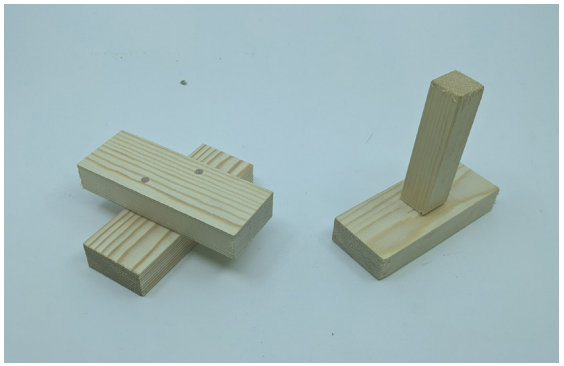
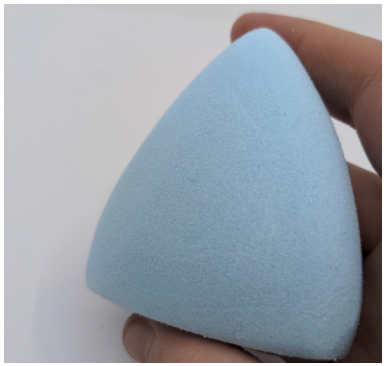


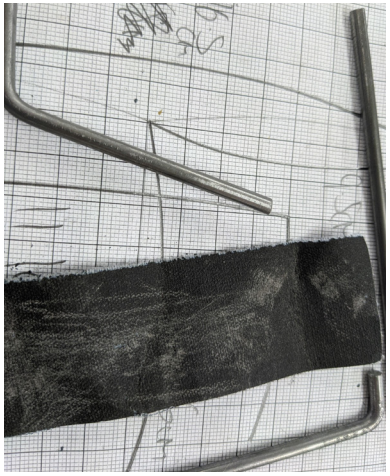










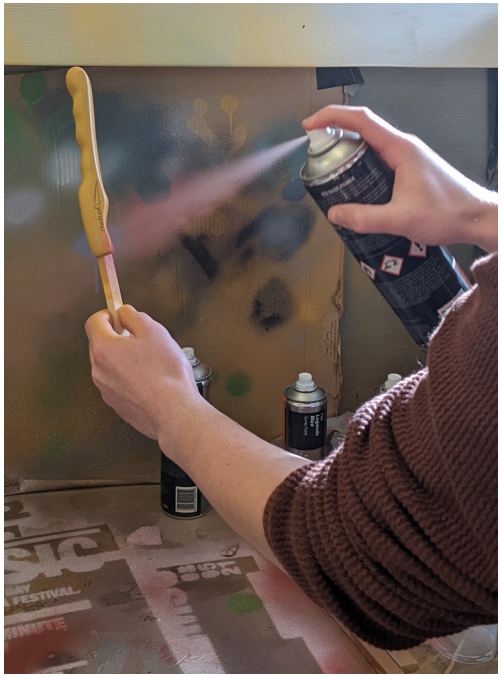


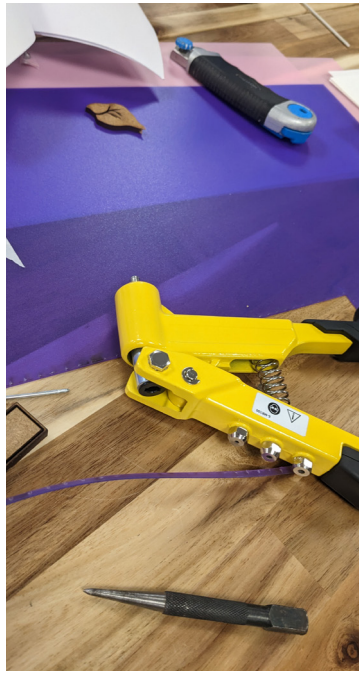


Tools & Techniques | Painting, woodworking, foam modelling, metalworking, joinery, polishing













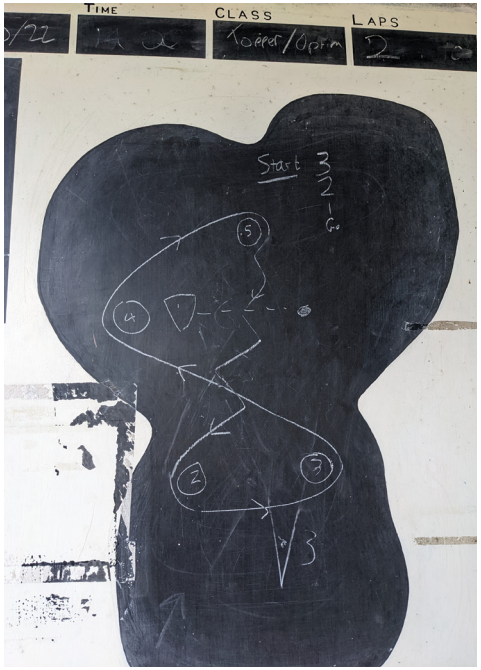












TIME
CLASS
LAPS
Start




GBR
37203
229
THINK


34875


5329
PSC2
14
THINK



My experiences in product design have affirmed my dedication to the design process and the transformative power it holds.

I enjoy the process of evolving ideas from initial thoughts to fully developed and explored outcomes, obtaining user feedback to refine my work. Blending creativity with problem-solving.

It is what I aspire to spend my life doing.

I want to build on this deep passion at university, in a new and challenging environment, to further hone and develop the skills needed to pursue a career in product design.

In the next few years, I would love to focus on product development with an emphasis on sustainability and having a positive impact on people's lives.