PD4063 DIGITAL MODELLING & PROTOTYPING

21307067 – Emilia Ziolek

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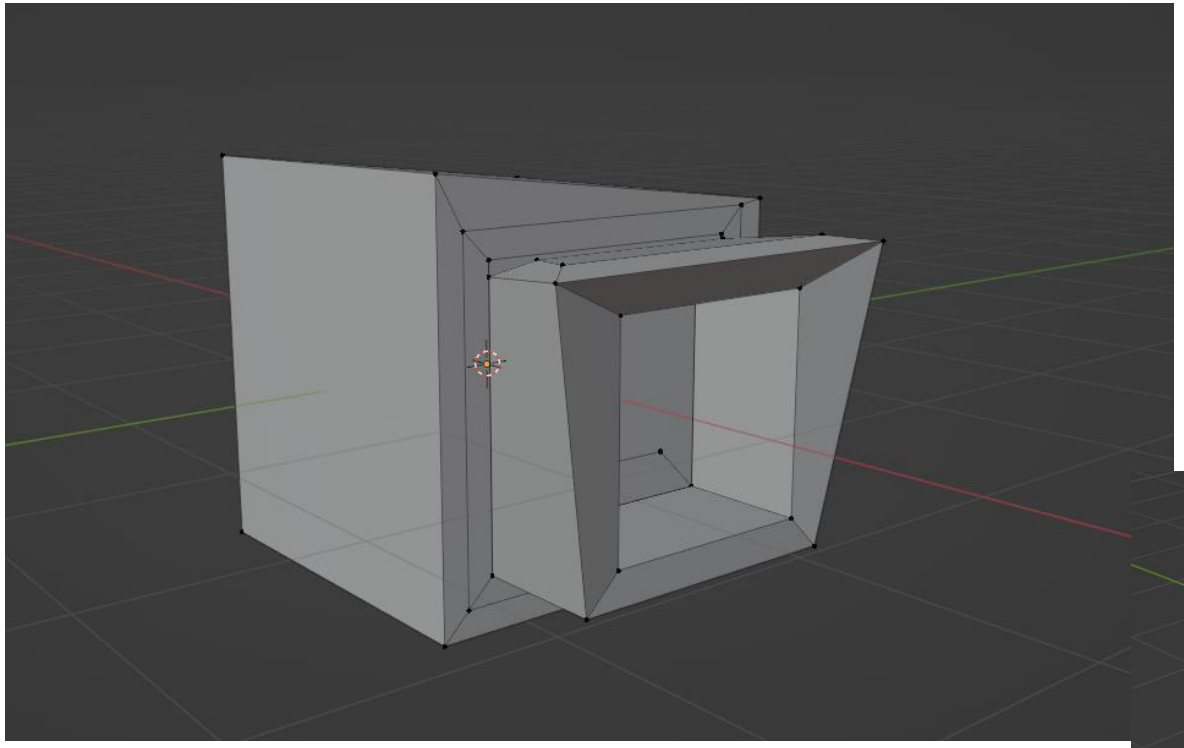
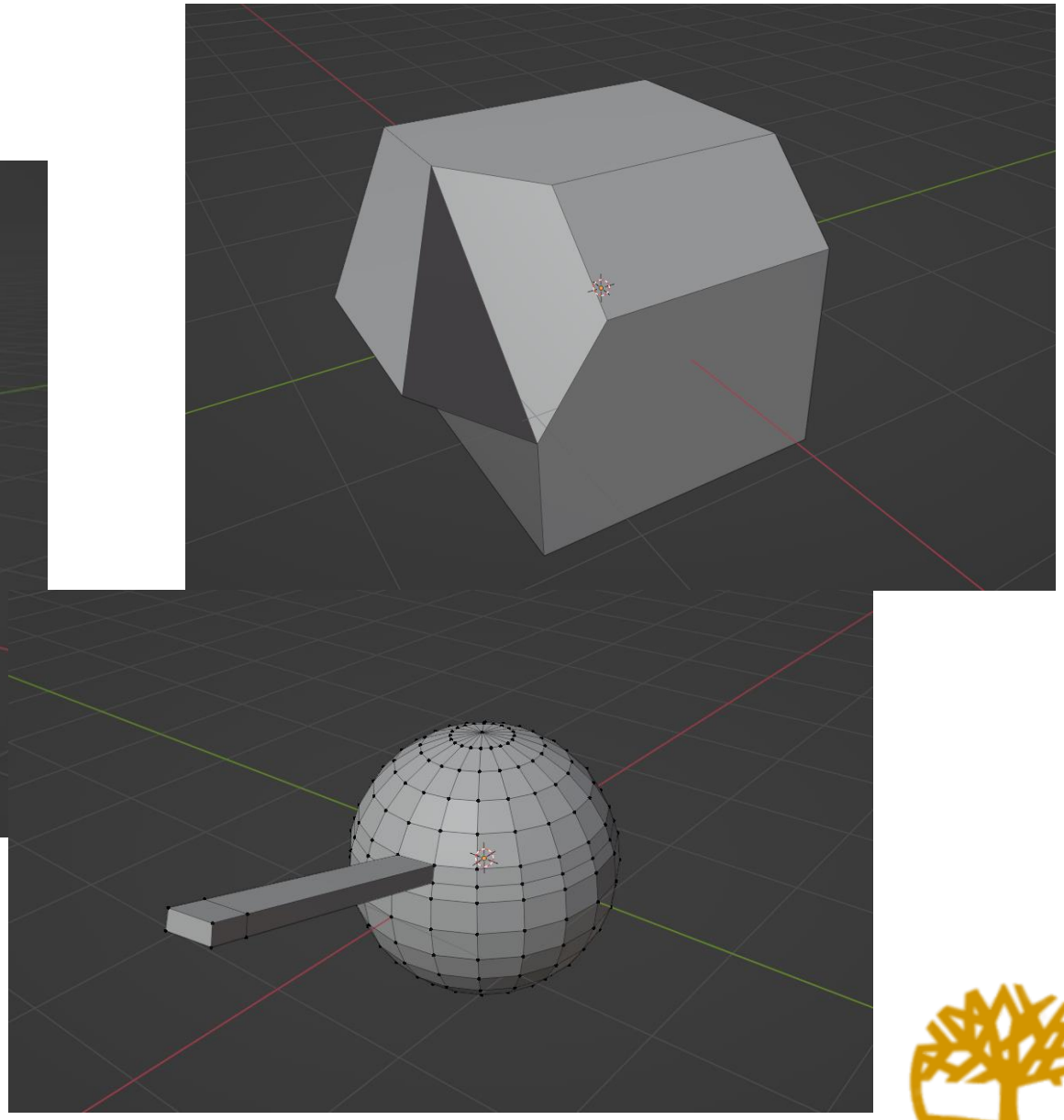
In-Class Blender Prototyping

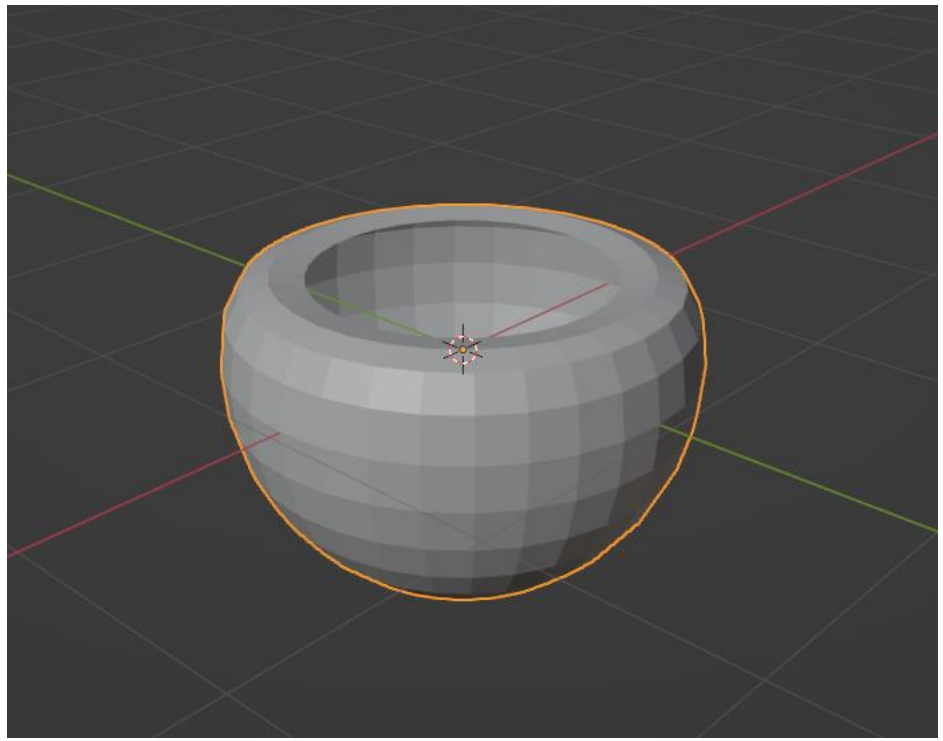
Task 1 – Bowl Model



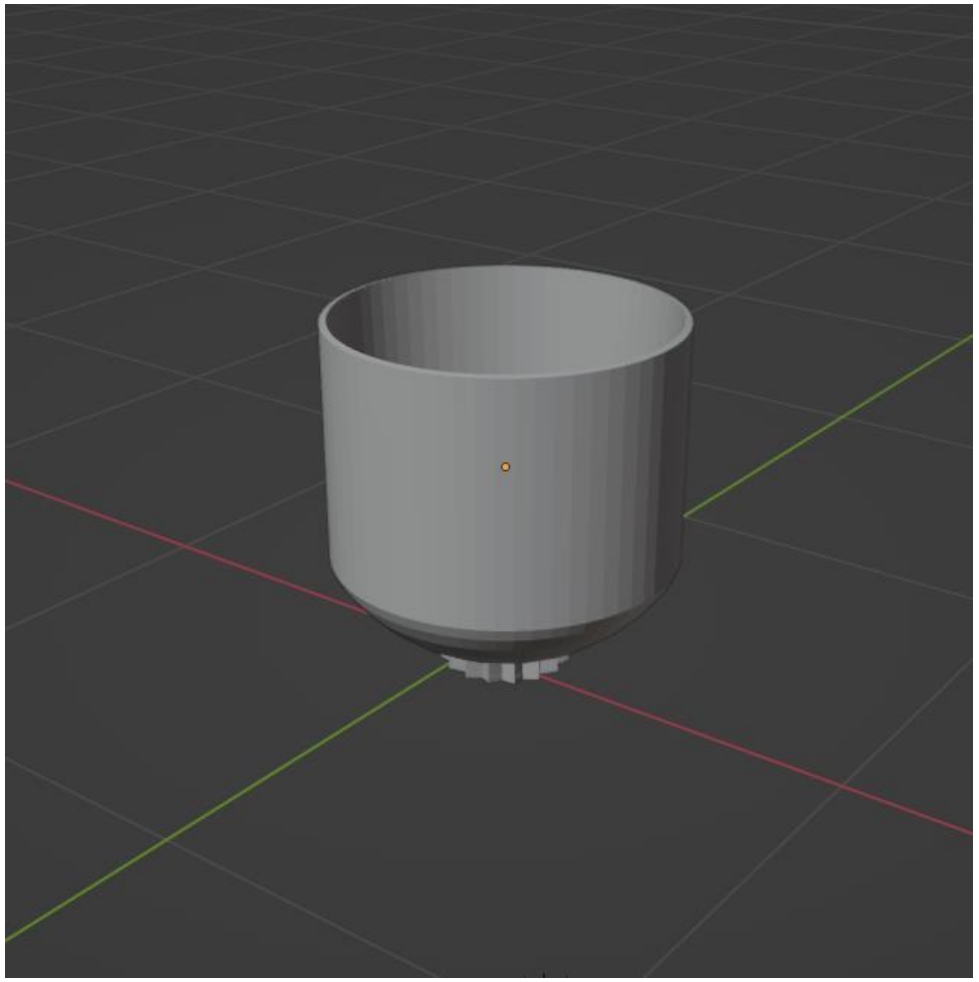


Introduction to Blender commands and hotkeys…

Task 1 – Bowl Model

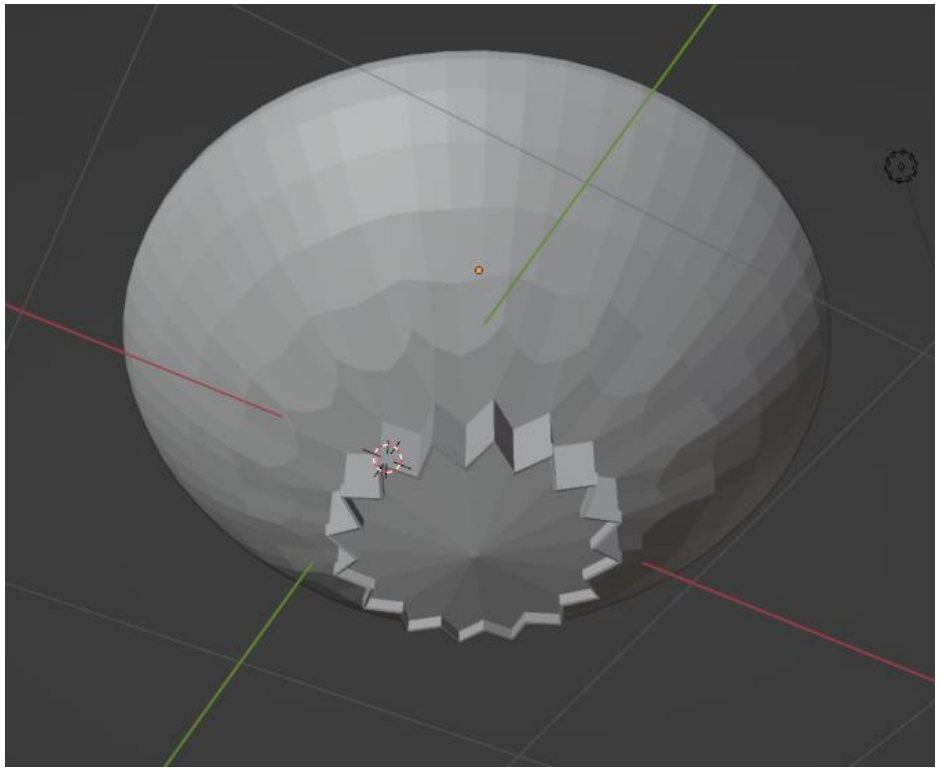


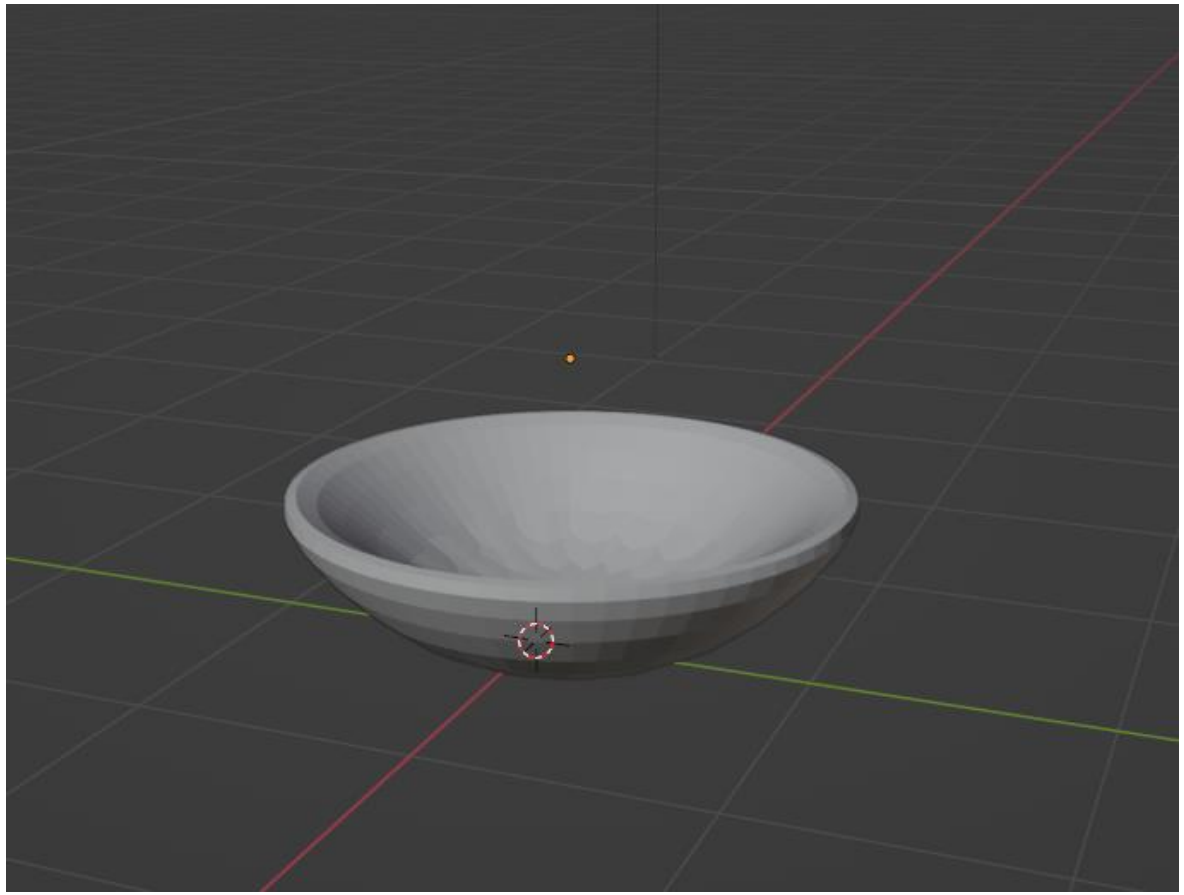
Cut the top off the sphere, solidified it….



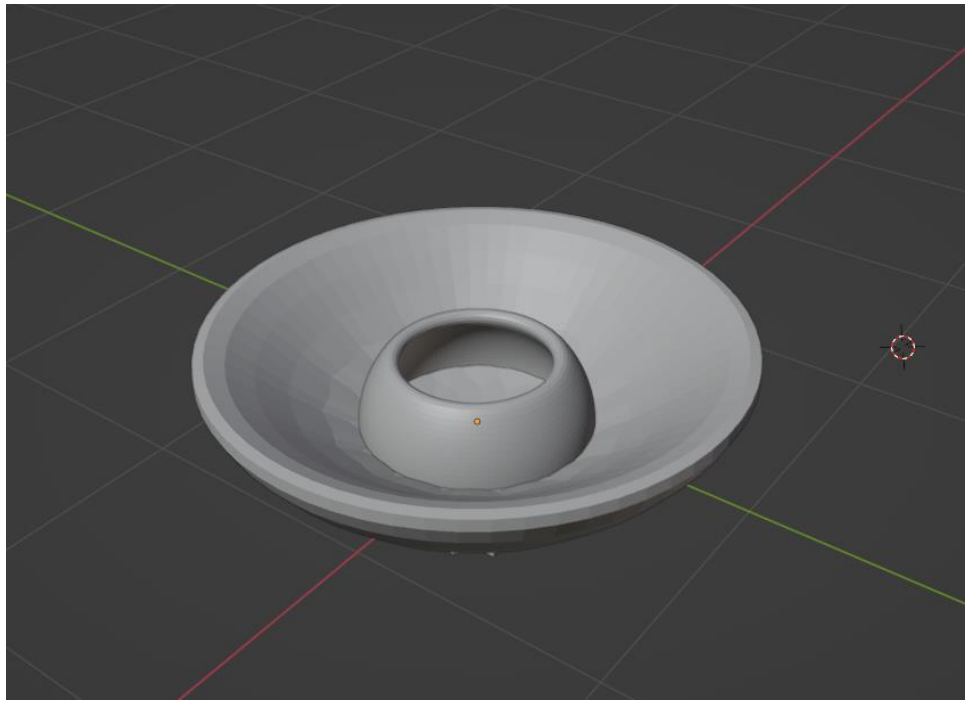
Task 1 – Bowl Model

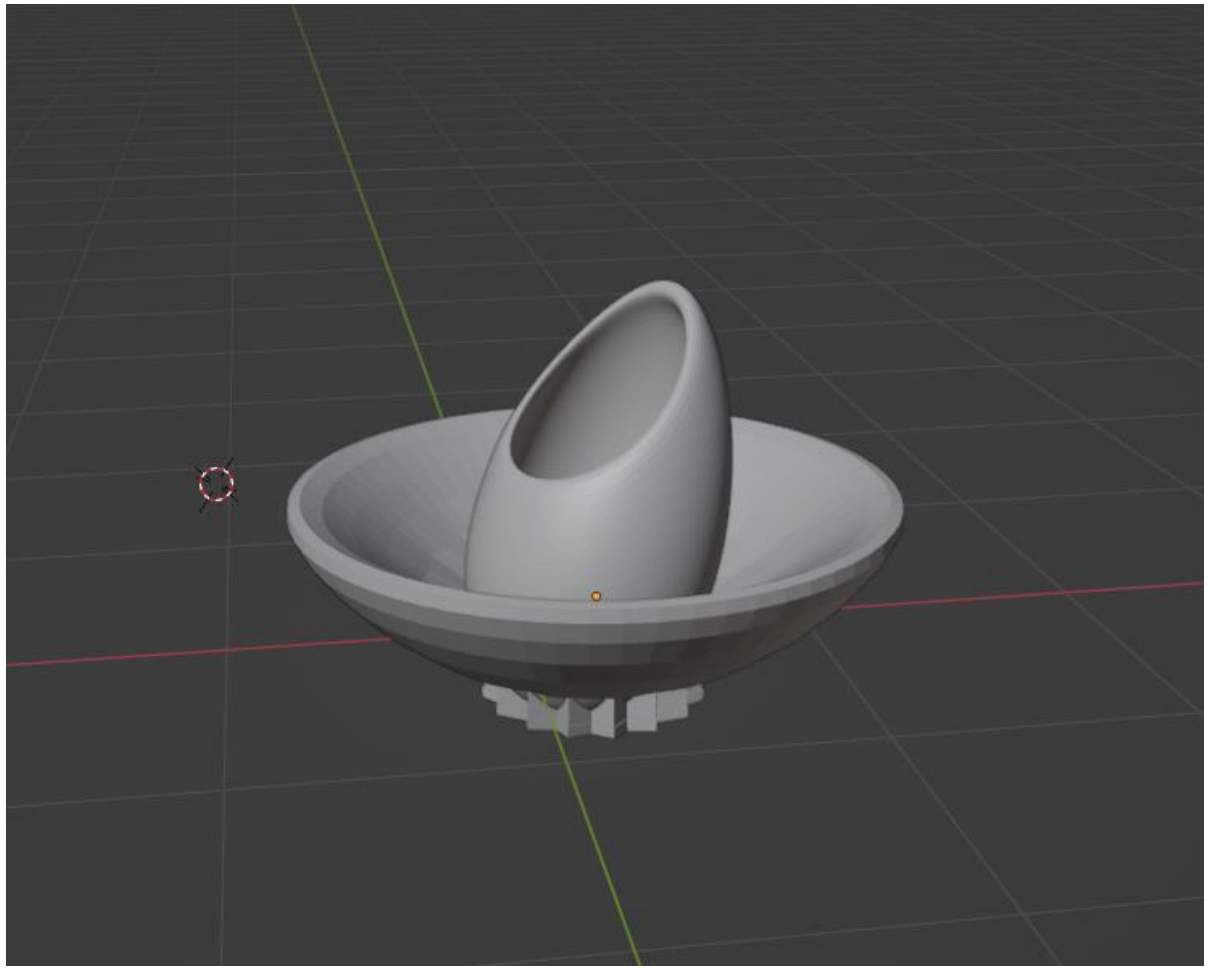
Subdivided, added a design at the bottom through extruding….





Task 1 – Bowl Model

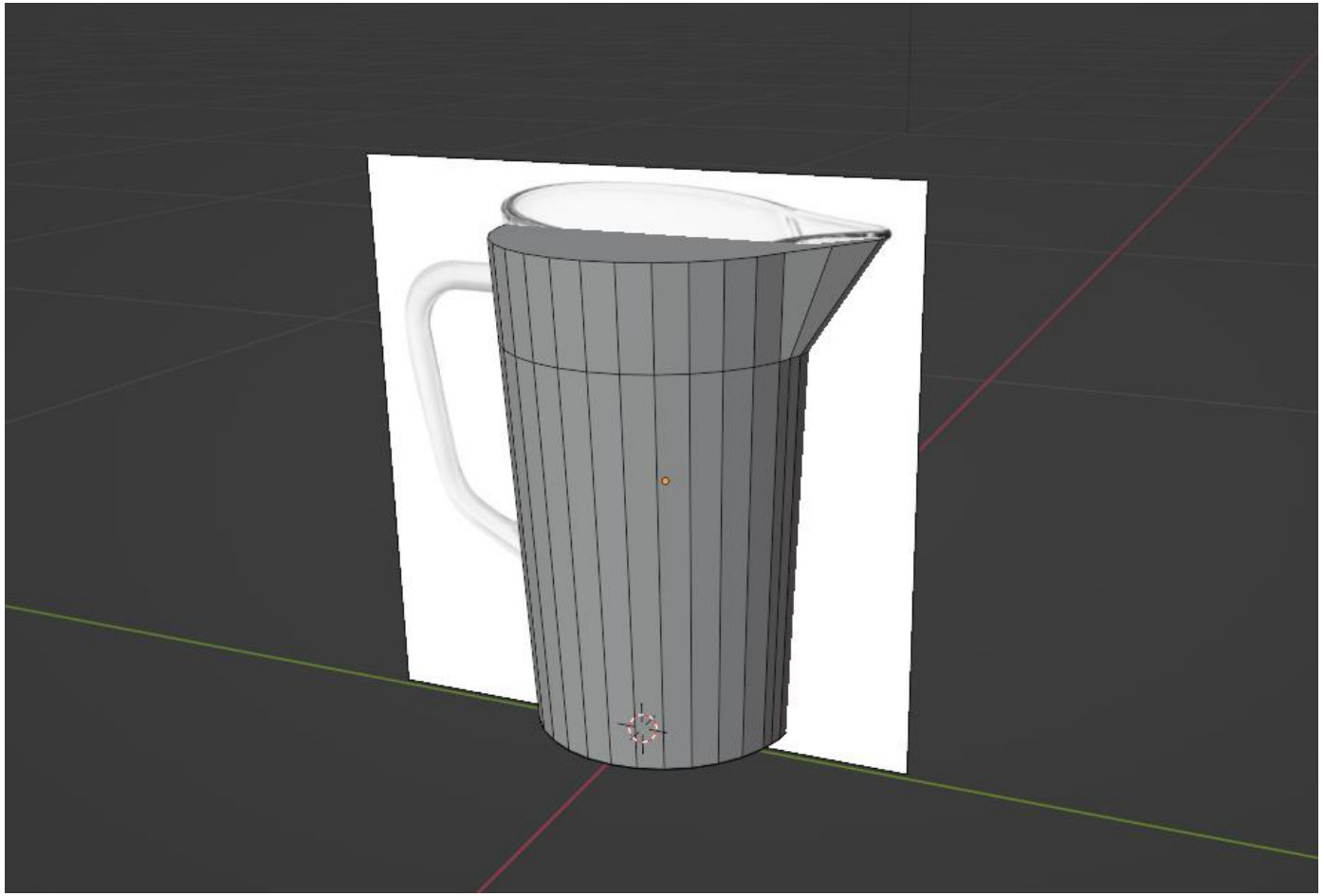




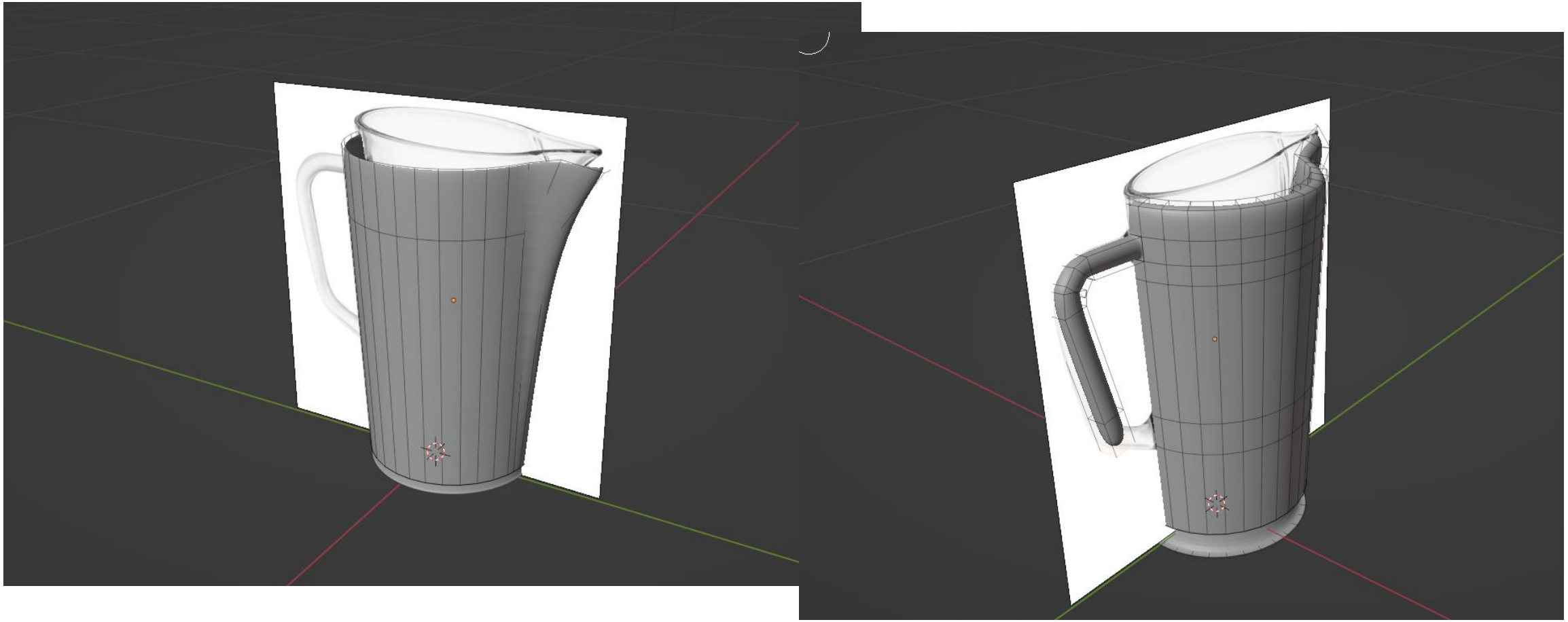
Added another shape which was subdivided, played around with the size and angle…

Task 2 – Jug Model

Given an image from google, made a basic shape around it…



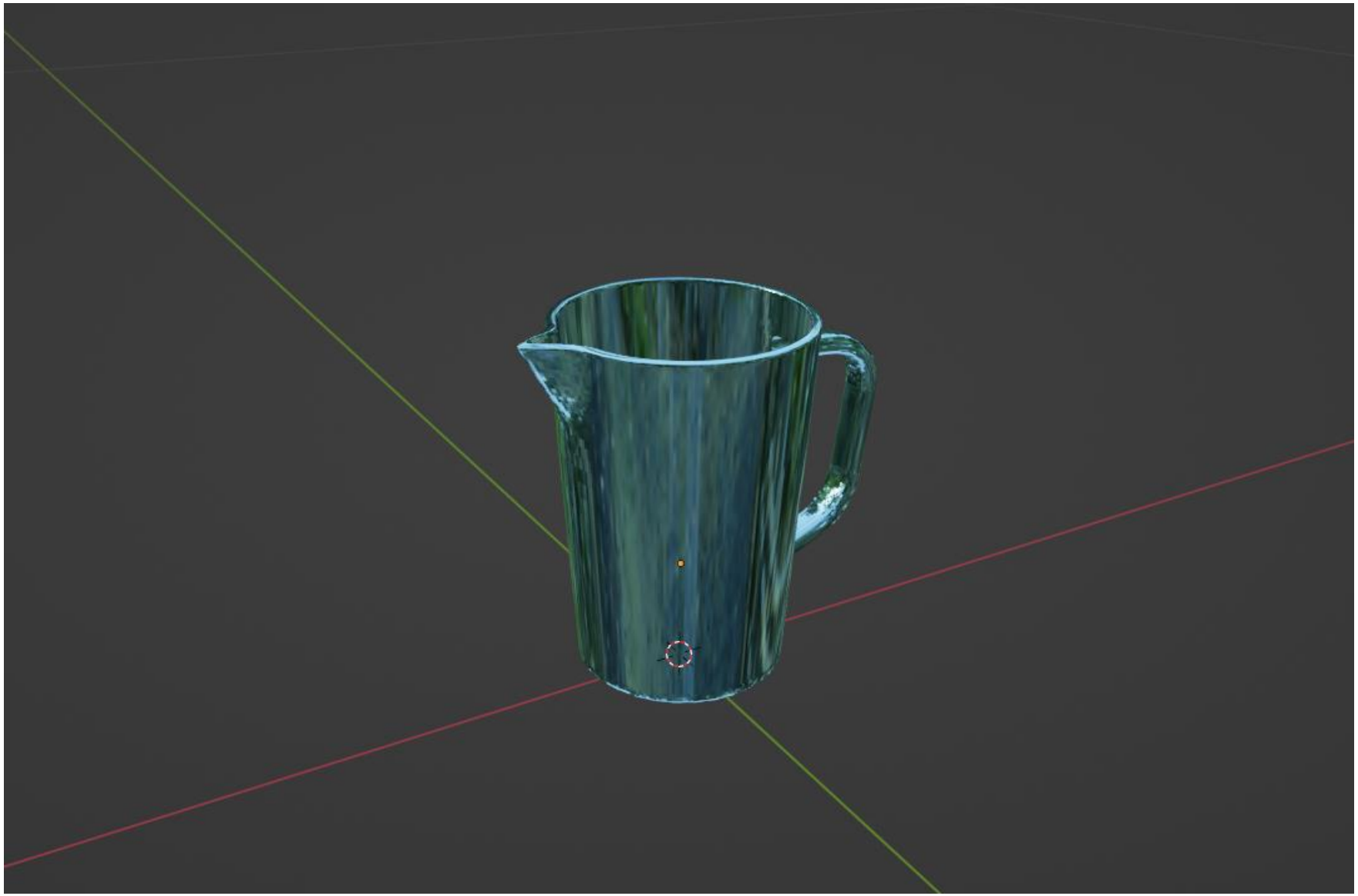
Task 2 – Jug Model



Solidified and subdivided it, made it fit to the picture, began extruding and rotating the handle, then merged faces…

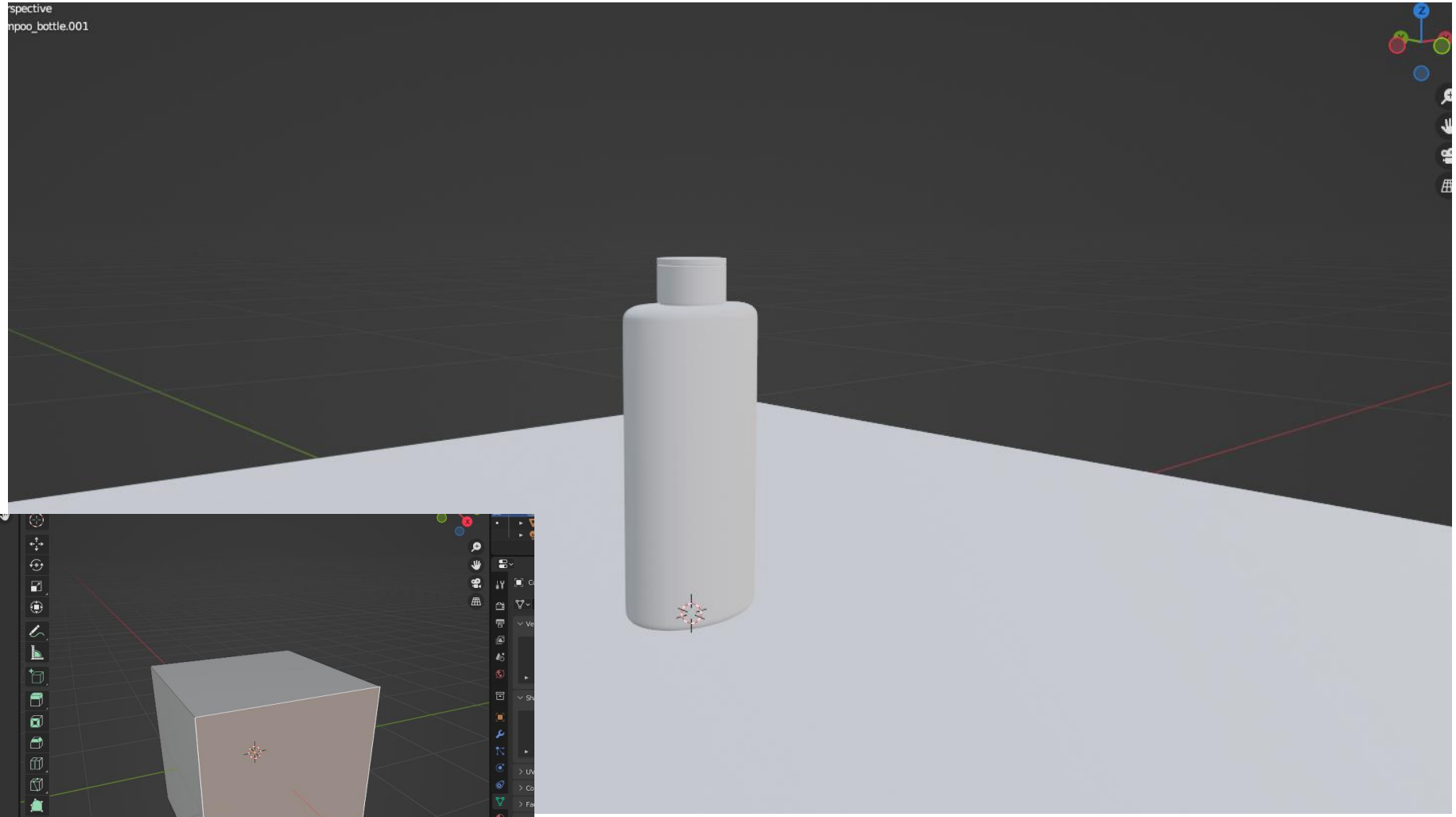
Task 2 – Jug Model

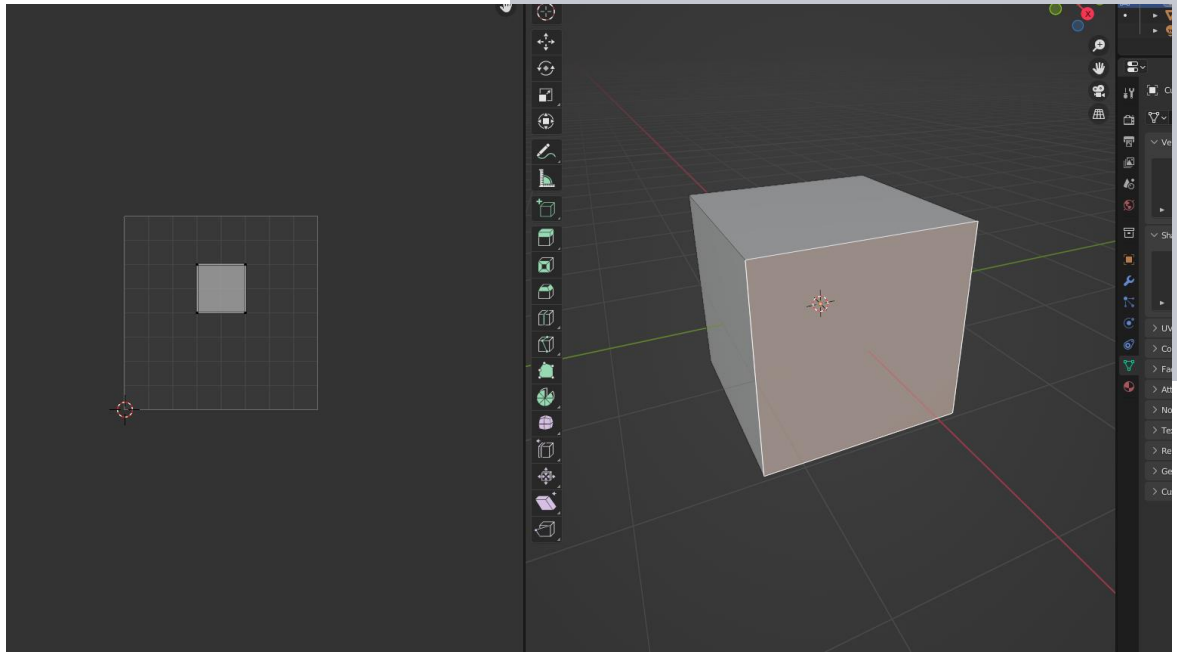
Added a material and rendered.



Task 3 – UV Mapping

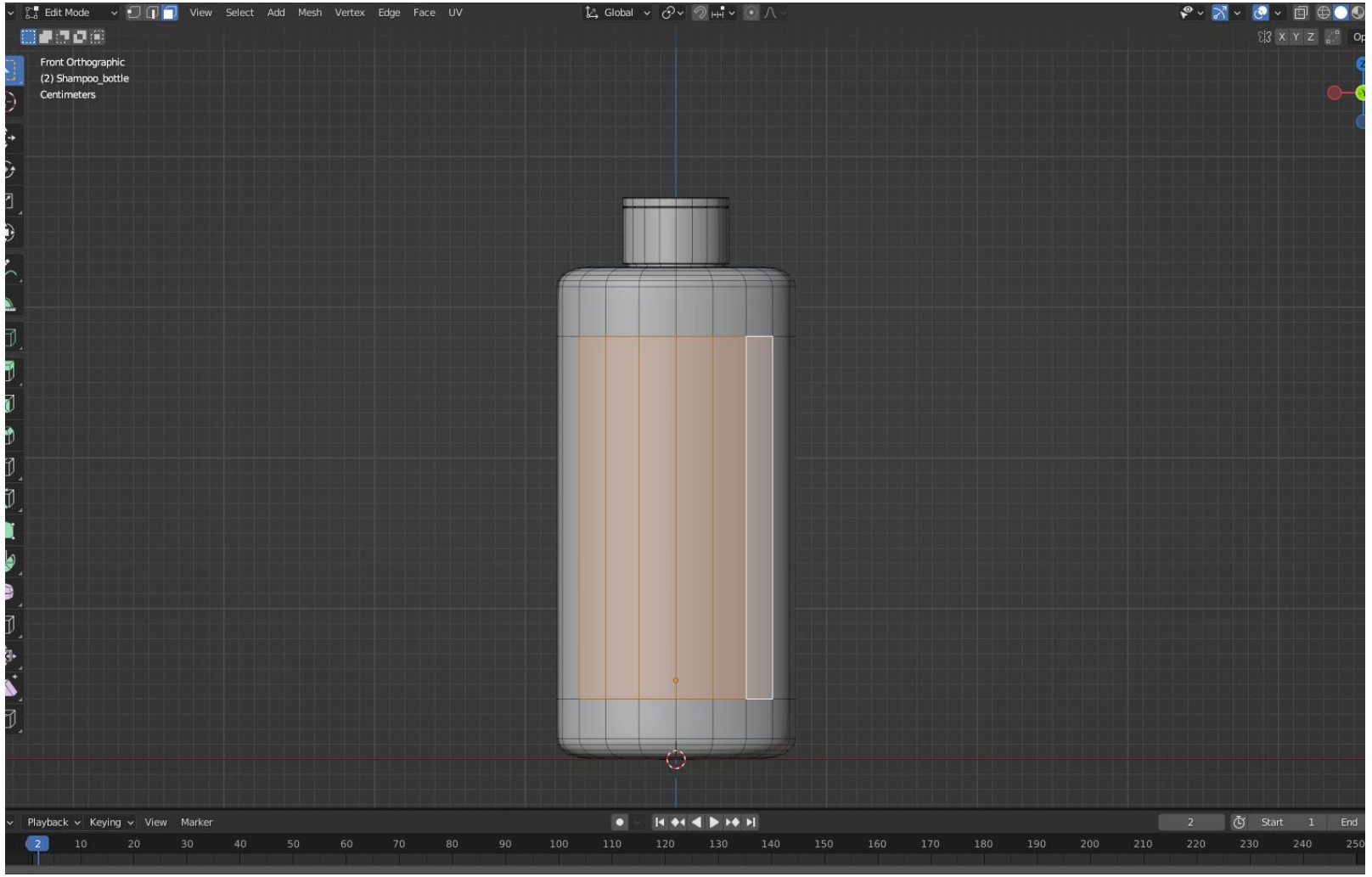
Provided with a model and
Was introduced to UV mapping.



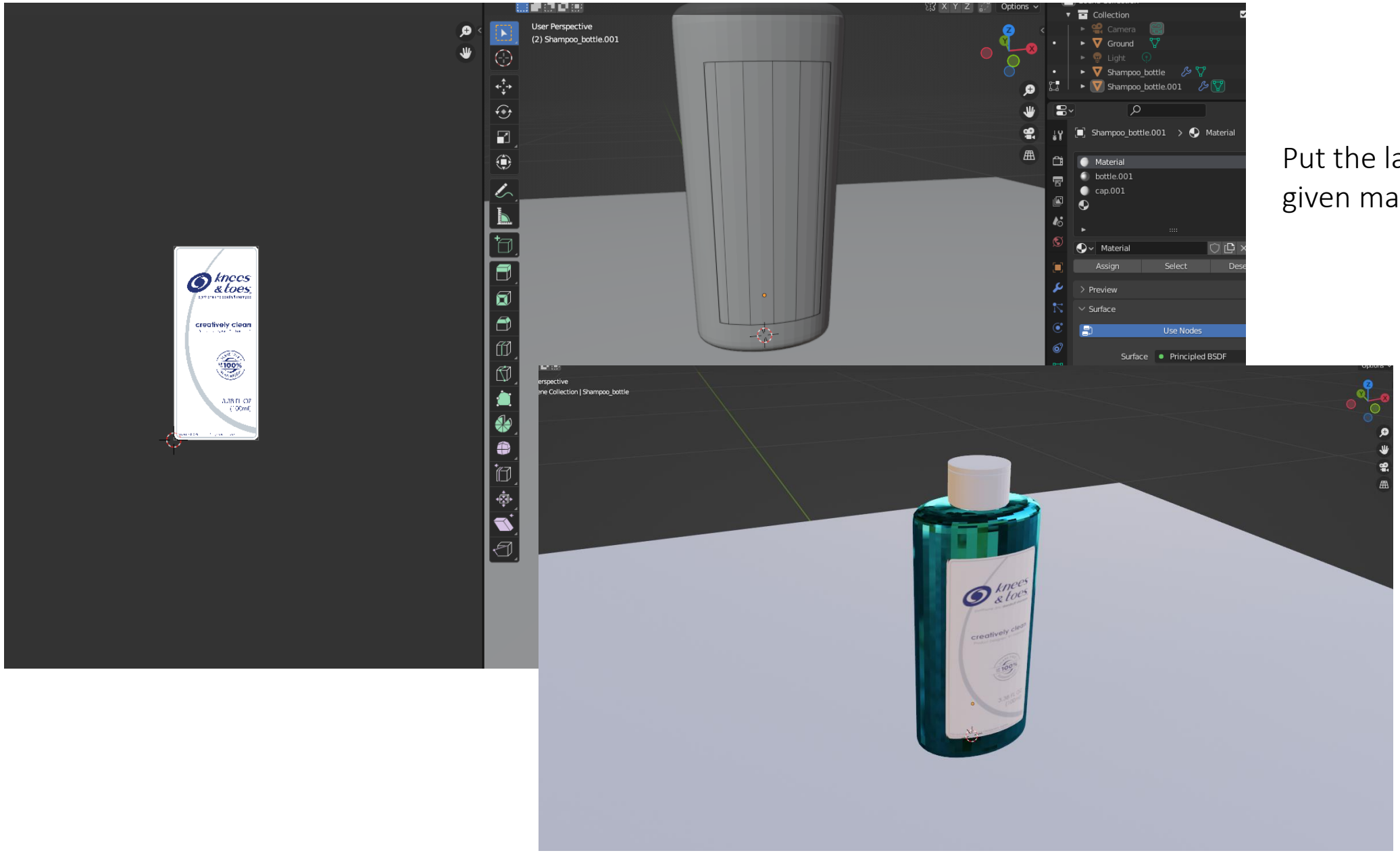


Task 3 – UV Mapping

Introduction to using faces and got given an image.

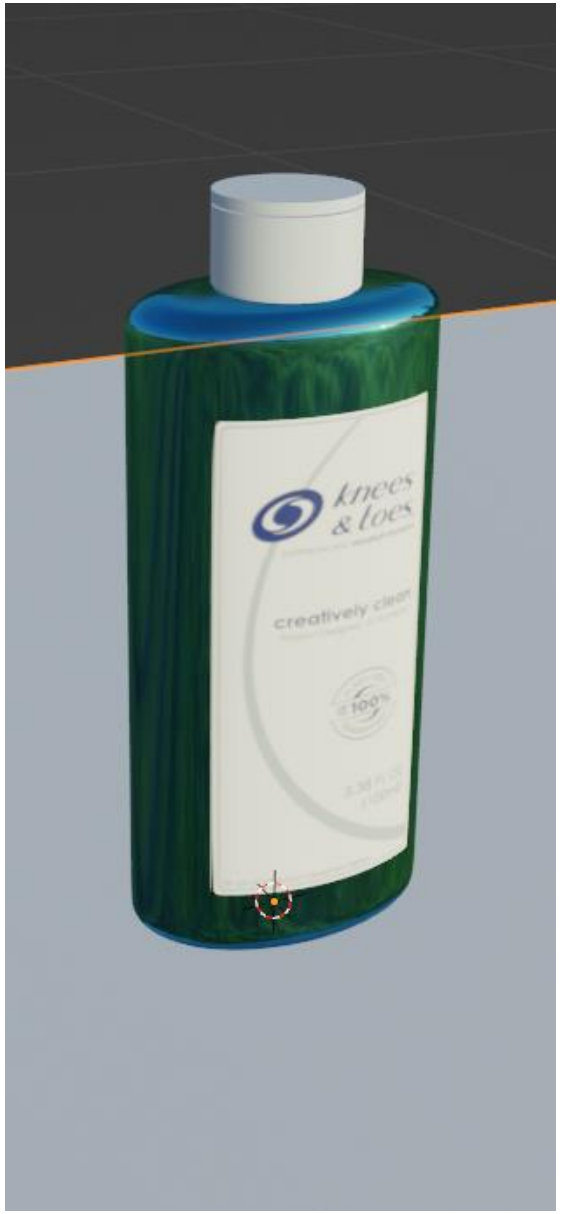


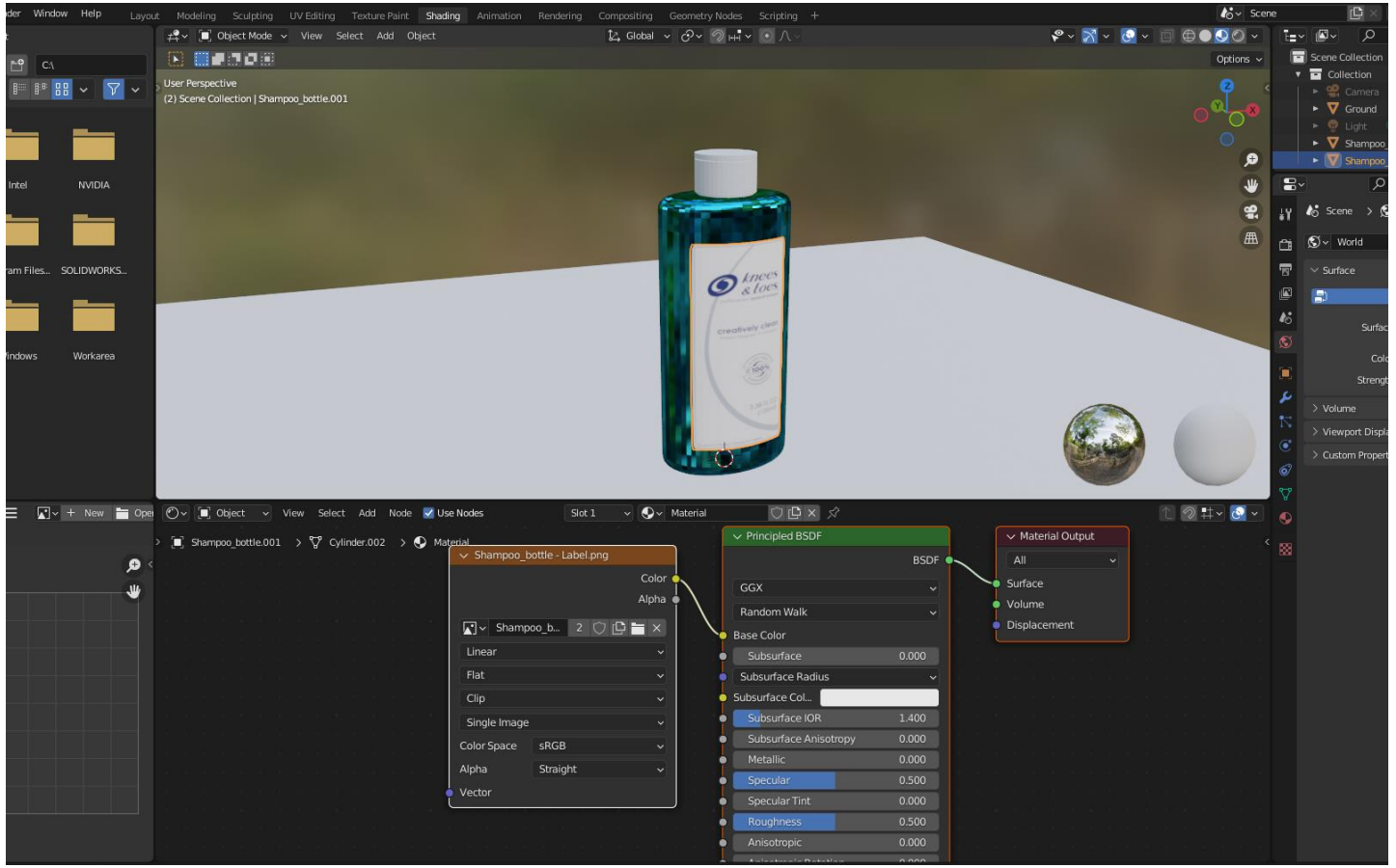
Task 3 – UV Mapping



Put the label on and the given materials…

Task 3 – UV Mapping

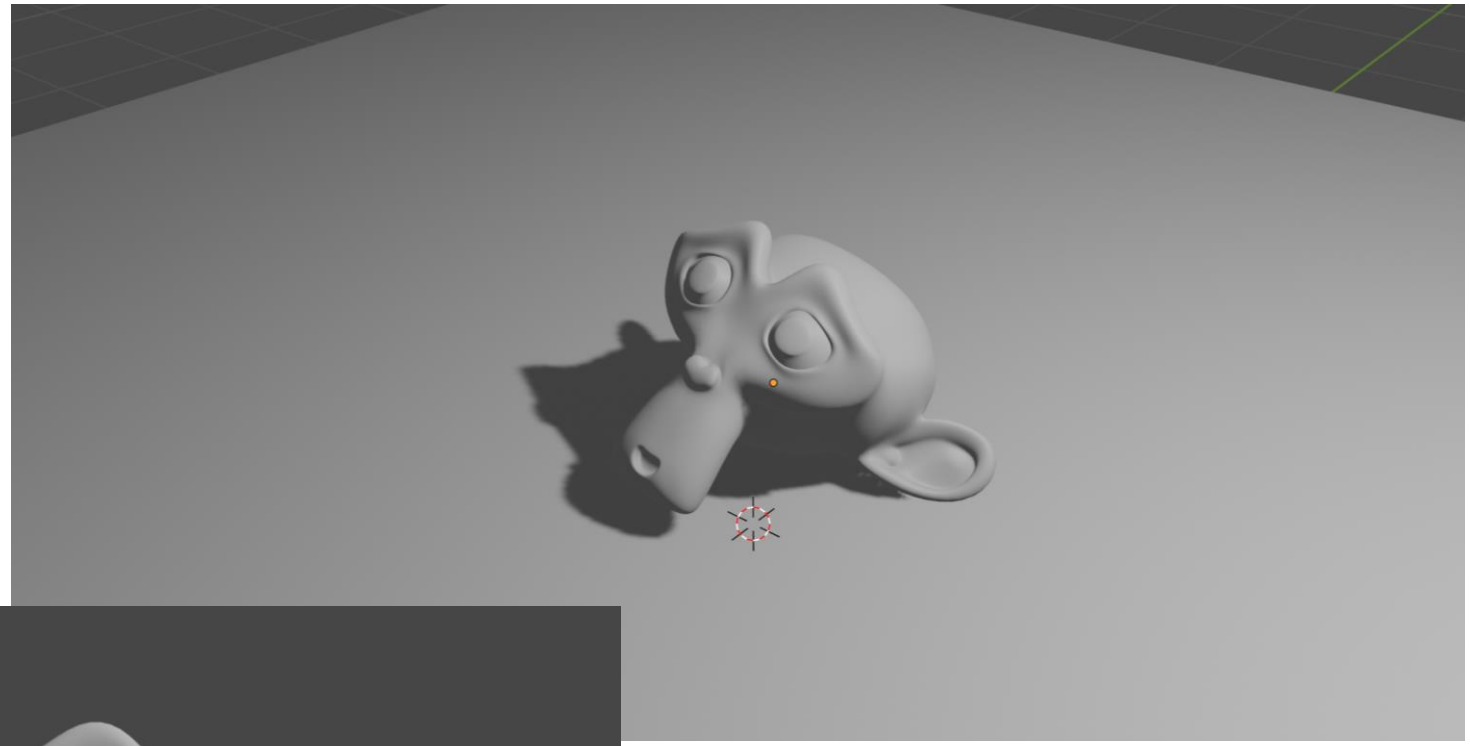


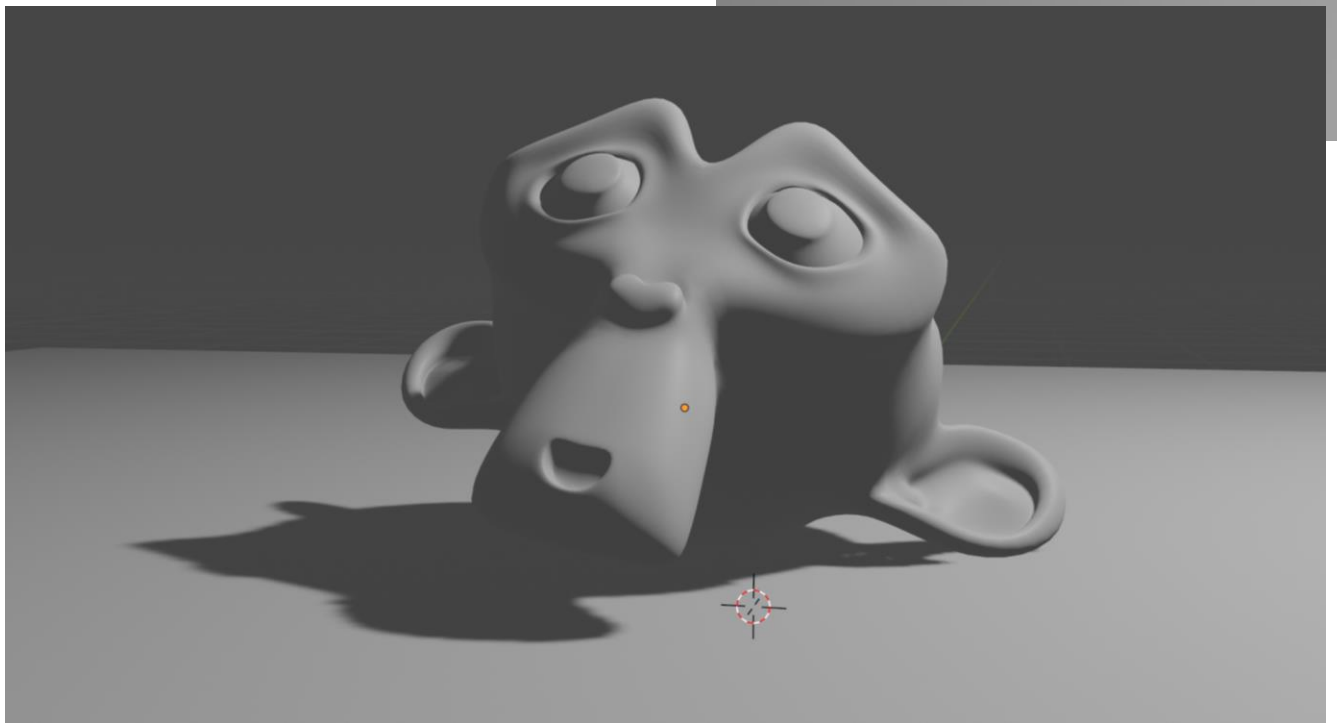


Using nodes to get rid of side of table and rendering…

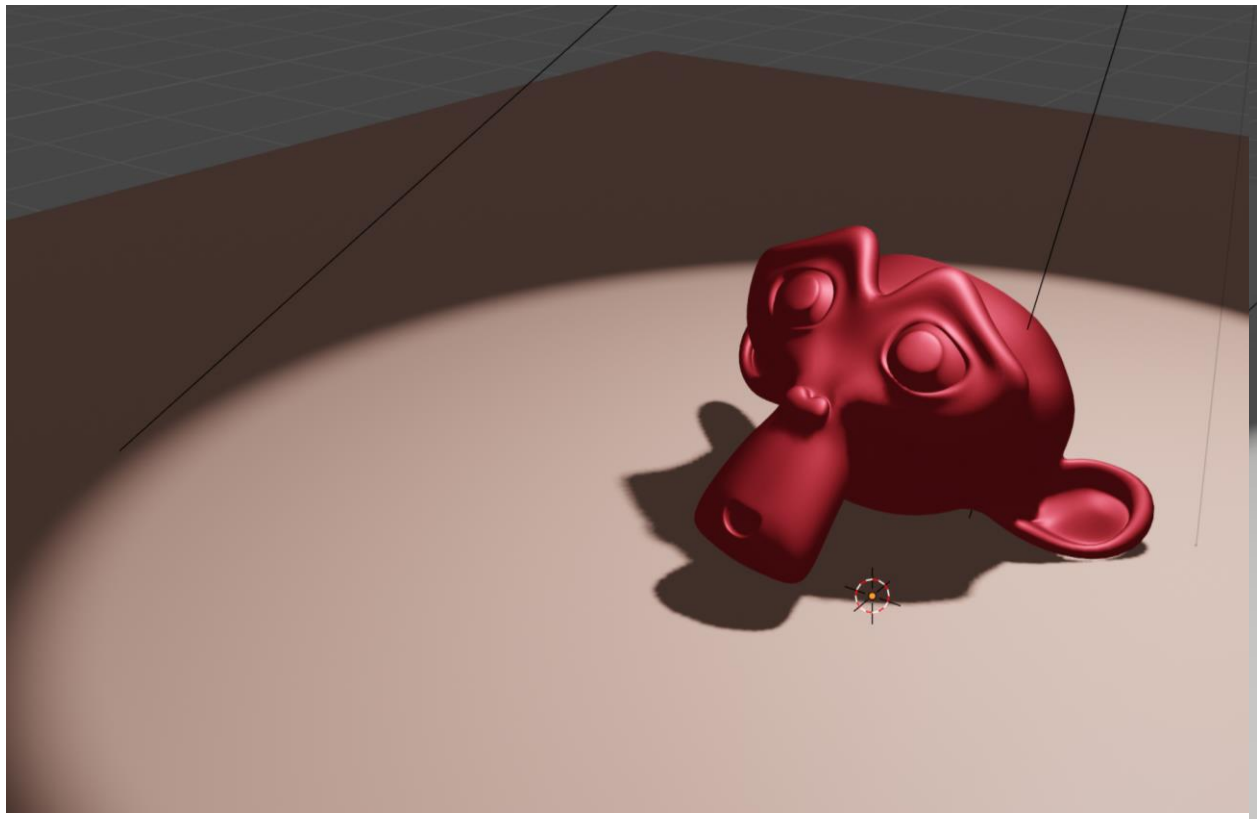
Task 4 – Rendering Project

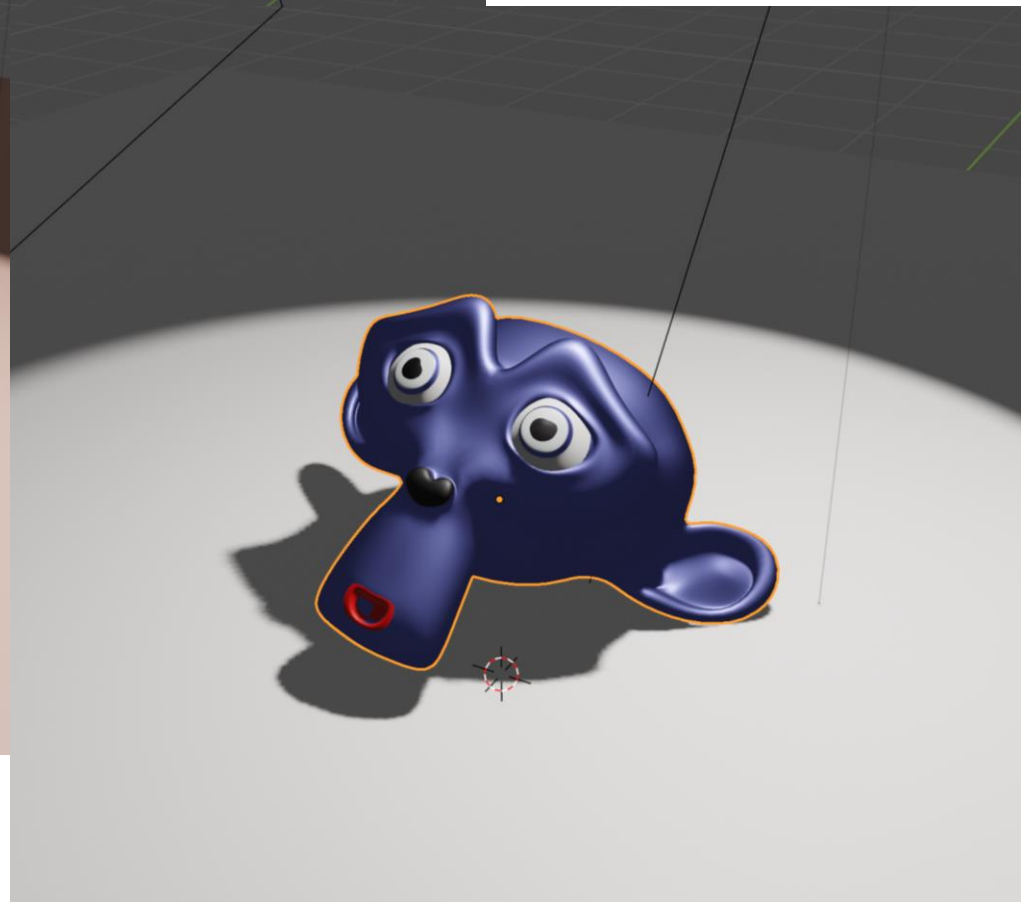
Putting in monkey head and introduction to light and scenery.





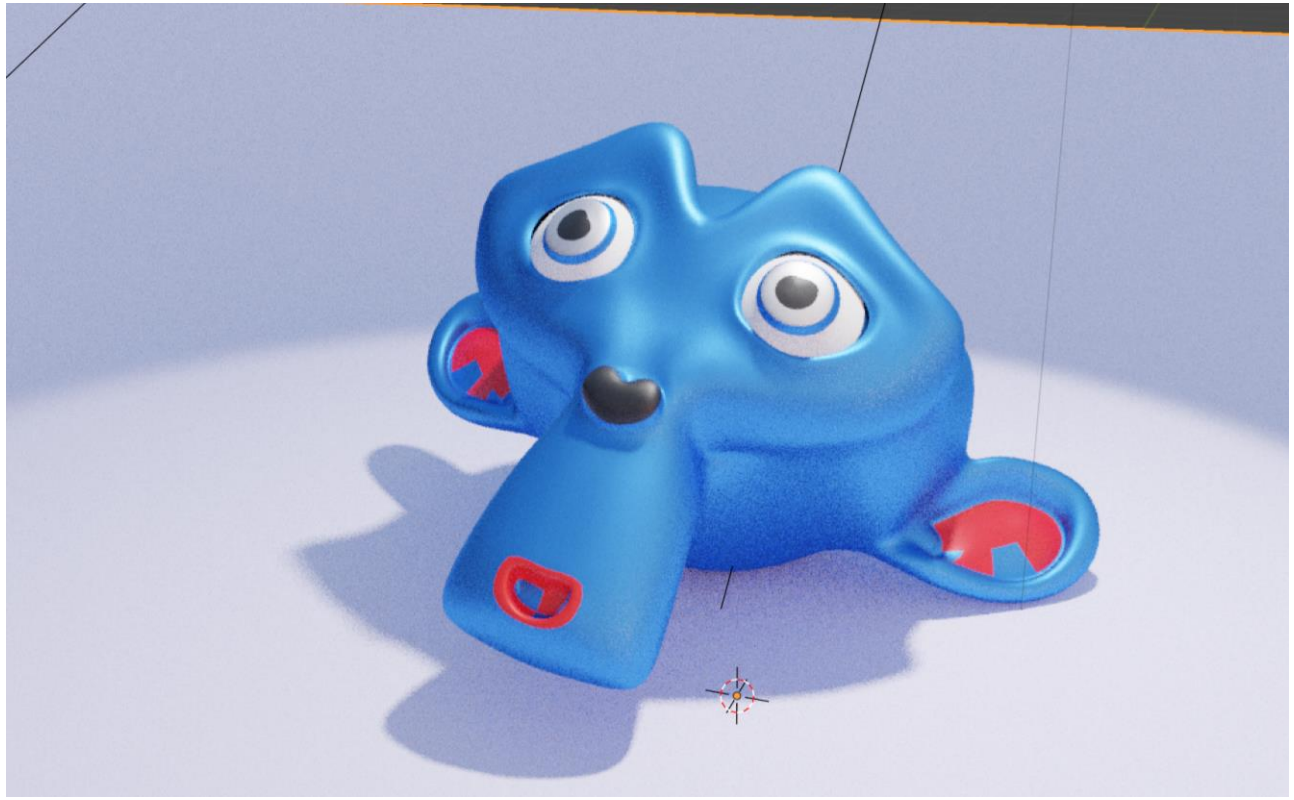
Task 4 – Rendering Project





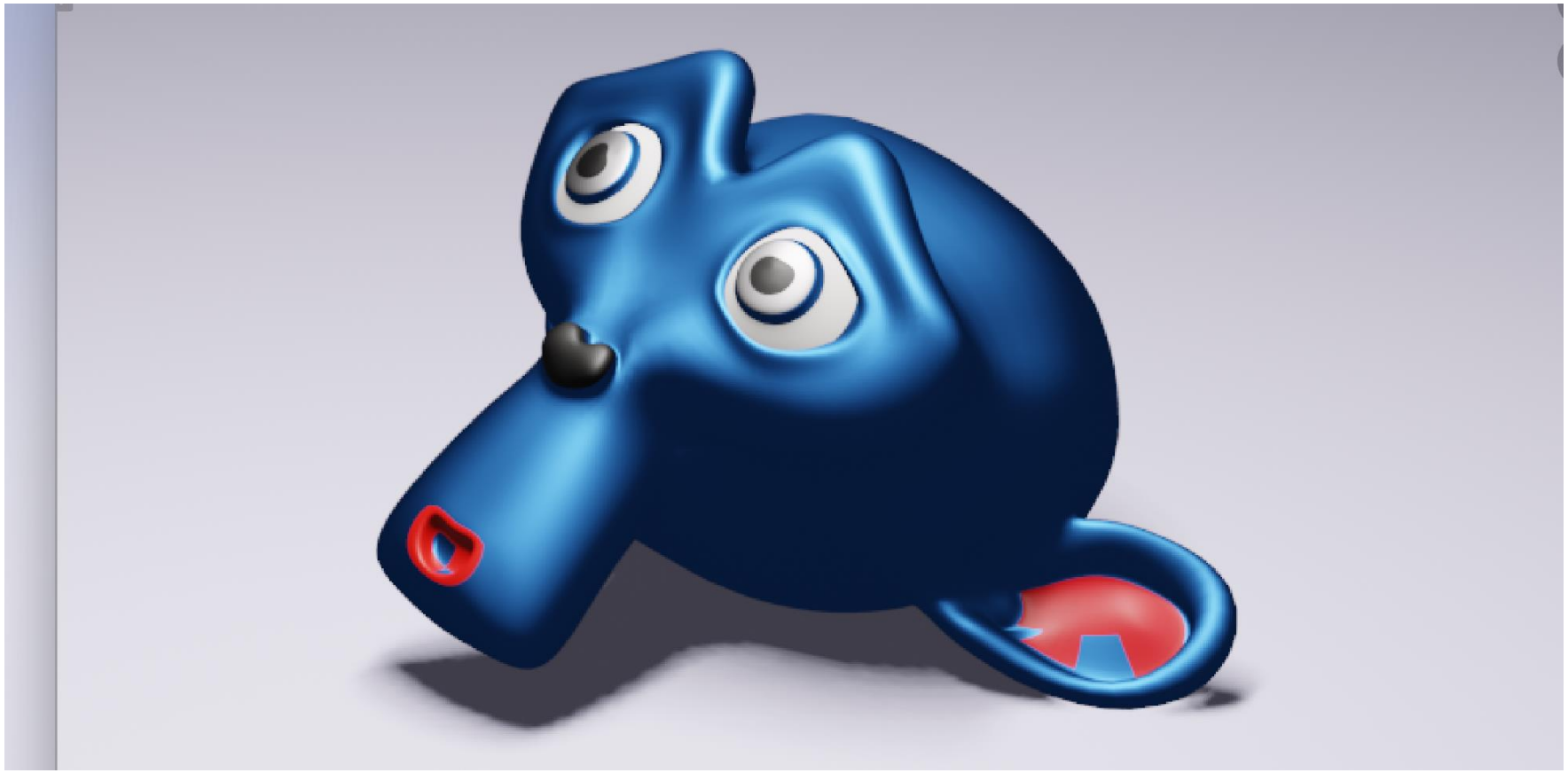
Using different types of materials and lighting techniques.

Task 4 – Rendering Project



Fully rendered monkey…

Task 4 – Rendering Project



Aesthetic Analysis

Background Information

Timberland is an American outdoor footwear producer and retailer, In addition to selling clothing and accessories, the business also sells leather goods, watches, and glasses.

Timberland was formerly known as The Abington Shoe Company, based in Massachusetts. Nathan Swartz, a shoemaker and salesperson, purchased it in the middle of the 1950s and went on to make it a family enterprise.

The Swartz family later invented an injection molding method for the shoes in 1965, enabling a stitch-free, nearly waterproof union of the sole and top.

In 1973, that boot made its debut as the Timberland boot. The color and design spread so widely that it was trademarked as “The Original Yellow Boot”.

Timberlands (nicknamed "Timbs") had become part of hip-unofficial hop's dress code by the early 1990s, matching tough, utilitarian gear and hard rock lyricism.

Mood board

TIMBERLAND LIMITED RELEASES

In-depth Analysis

Waterproof, seam sealed construction.

Robust 100% Nylon laces.

Padded collar for comfort.

Inner of boot contains glove leather – a smoother, softer and pliable hide.

The uppers, inners and soles are sewn together using quadruple-row nylon, which is supremely strong and flexible, and resistant to rot and mildew.

Original boot is made from nubuck leather. This leather is sourced from LWG silver or gold-rated tanneries.

Steel-shank for arch support.

Fabric lining, over 50% recycled material.

Soles are made of injection-molded rubber to achieve maximum grip, waterproofing and durability.

performance
well-crafted
color
durable
leather
sustainable
recycled
strong
resilient
comfortable
waterproof
design
breathable
green
sturdy
insulated
simple
rugged
classy

Conclusive Opinion

With my research analysis I conclude that the design and aesthetic of the Timberland branded shoe is very unique. In my design criteria on this page I've listed my favourite observations that I would like to incorporate into the design. I've looked into the aesthetics of the 'yellow boot' with my mood board and feature assessment. I also wanted to learn a bit of the timberland's history for a further insight. I'm comfortable with continuing onto the next part of the project.

Design Criteria

- **Main Aspects**
  - Nun buck leather feel/case
  - Yellow coloured
  - Sustainable backstory/other materials
  - Present tight features (waterproof)

- **Second Aspects**
  - Stitches/Stiches design
  - 'Padded collar'
  - Height
  - Incorporate nylon laces.

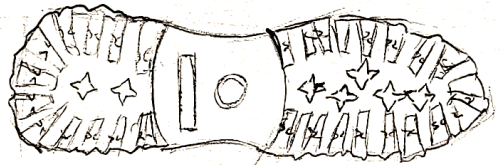
Design criteria put into perspective…

Create a product with Timberland's **nun buck/yellow leather** is a must (or a way to represent it). The product should display Timberland's image of **'premium quality'.** Other small details should include the **stitching**, representing the tight waterproof yet comfortable shoe. The **height** should be put into consideration, as specifically the 6-inch shoe has become a global icon. Another important consideration in my mind would be the slight backstory of the product, made from **sustainable** materials.

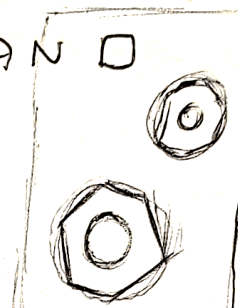
Concept Generation

TIMBERLAND

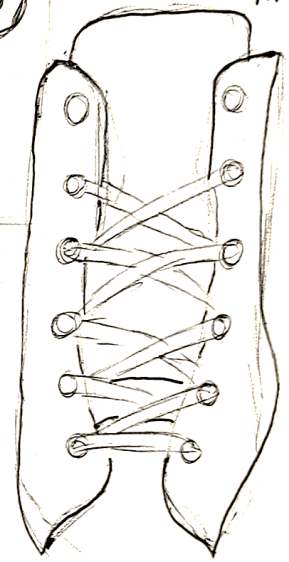
→ TIMBERLAND SIGNATURE LOGO



→ SOLE OF EACH SHOE

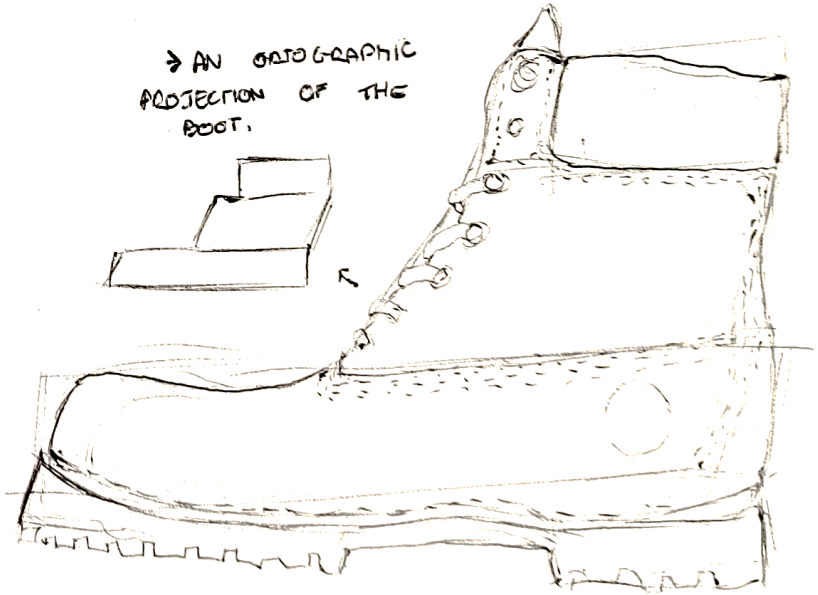


→ LACE PATTERN, WITH SHAPE OF RINGS.

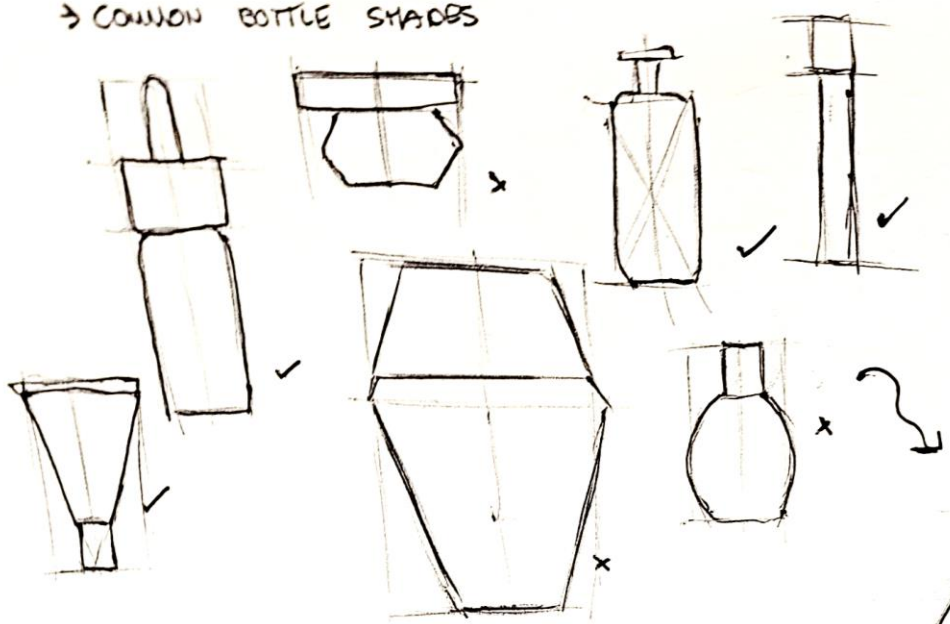


→ STITCH PATTERN (LAYER OF 4) (EVENLY SPACED)

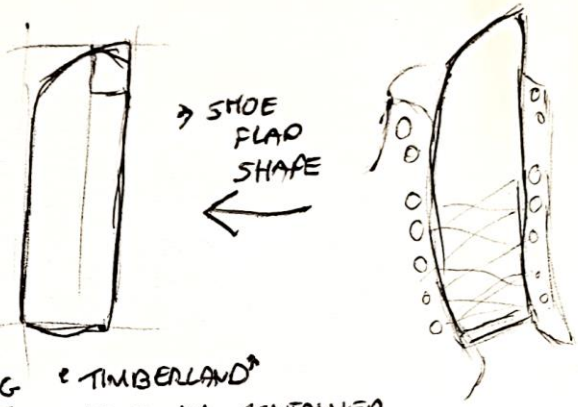
→ AN ORTOGRAPHIC PROJECTION OF THE BOOT.



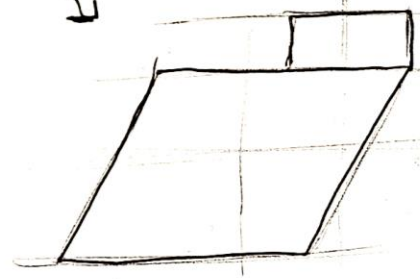
→ COMMON BOTTLE SHAPES



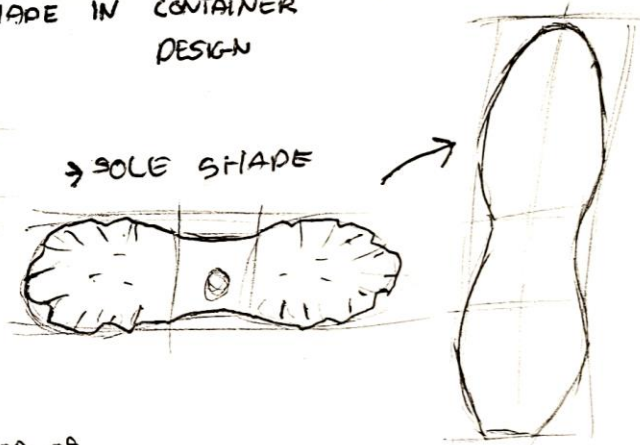
→ SHOE FLAP SHAPE

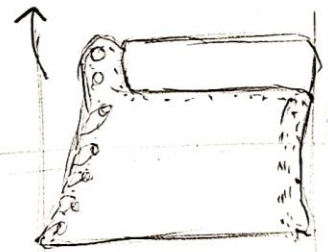


→ EXPLORING "TIMBERLAND" SHAPE IN CONTAINER DESIGN



→ SOLE SHAPE

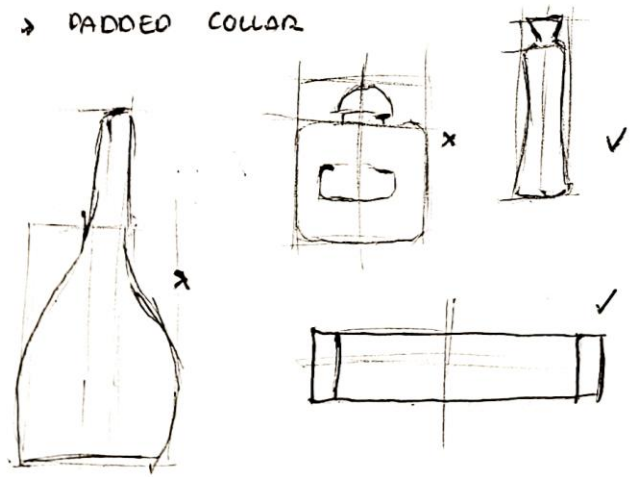


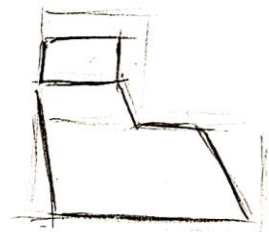


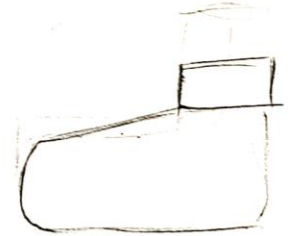
→ TOP OF BOOT FLAP

DESIGN CRITERIA FEATURES

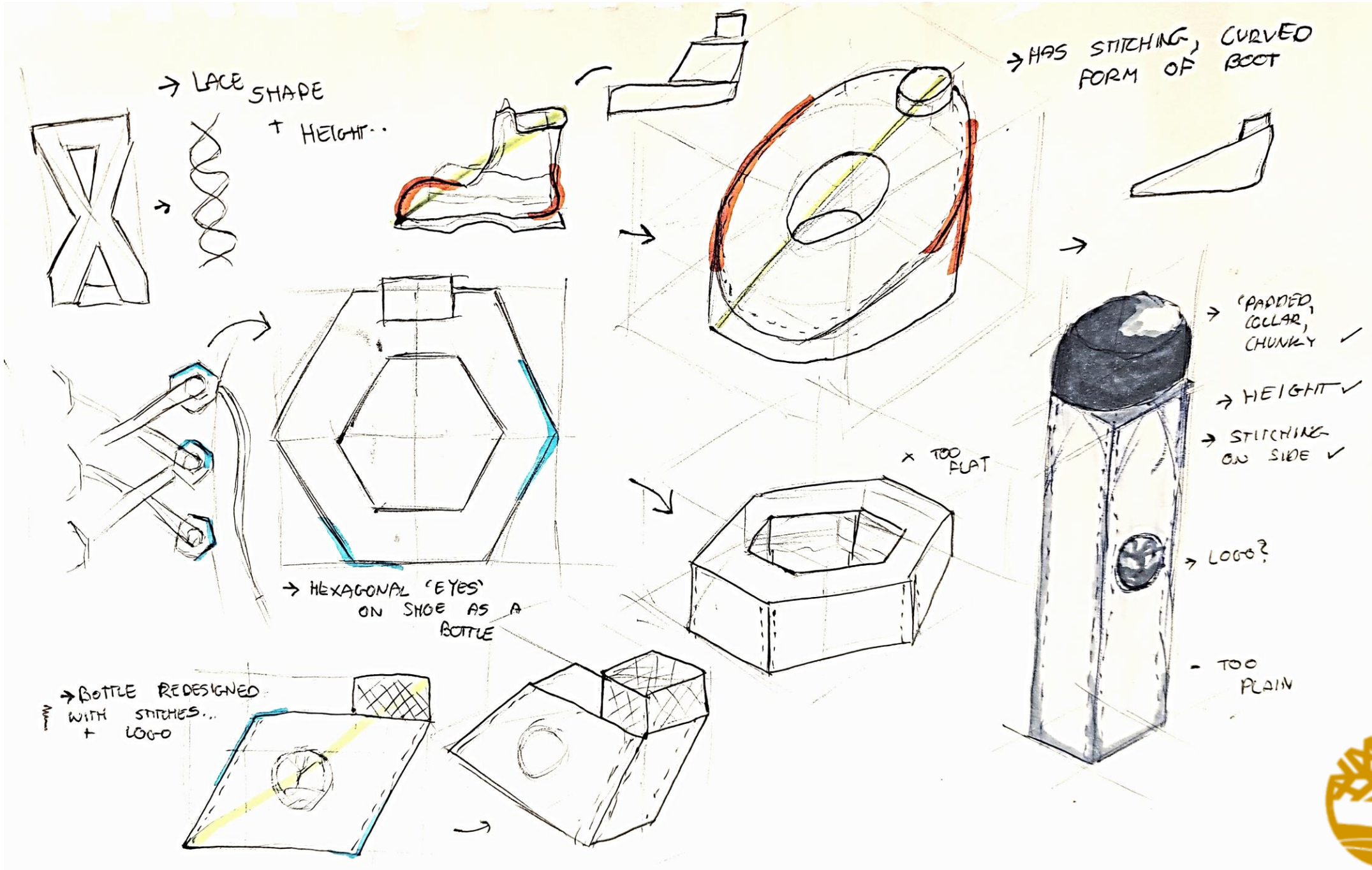
- → REPRESENTS NUN BUCK LEATHER
- → STITCHING → NYLON LACE PATTERN
- → HAVE HEIGHT
- → PADDED COLLAR



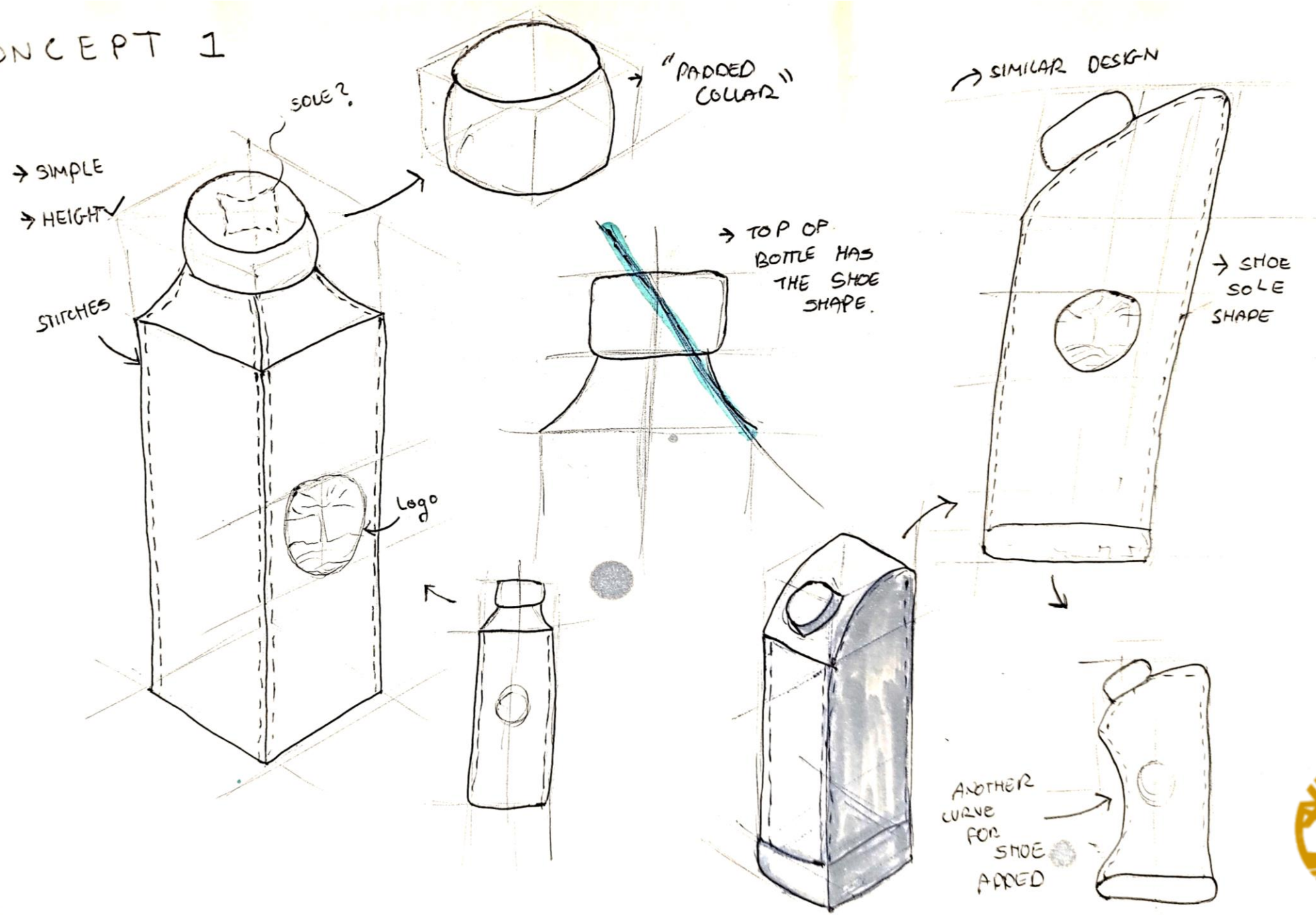




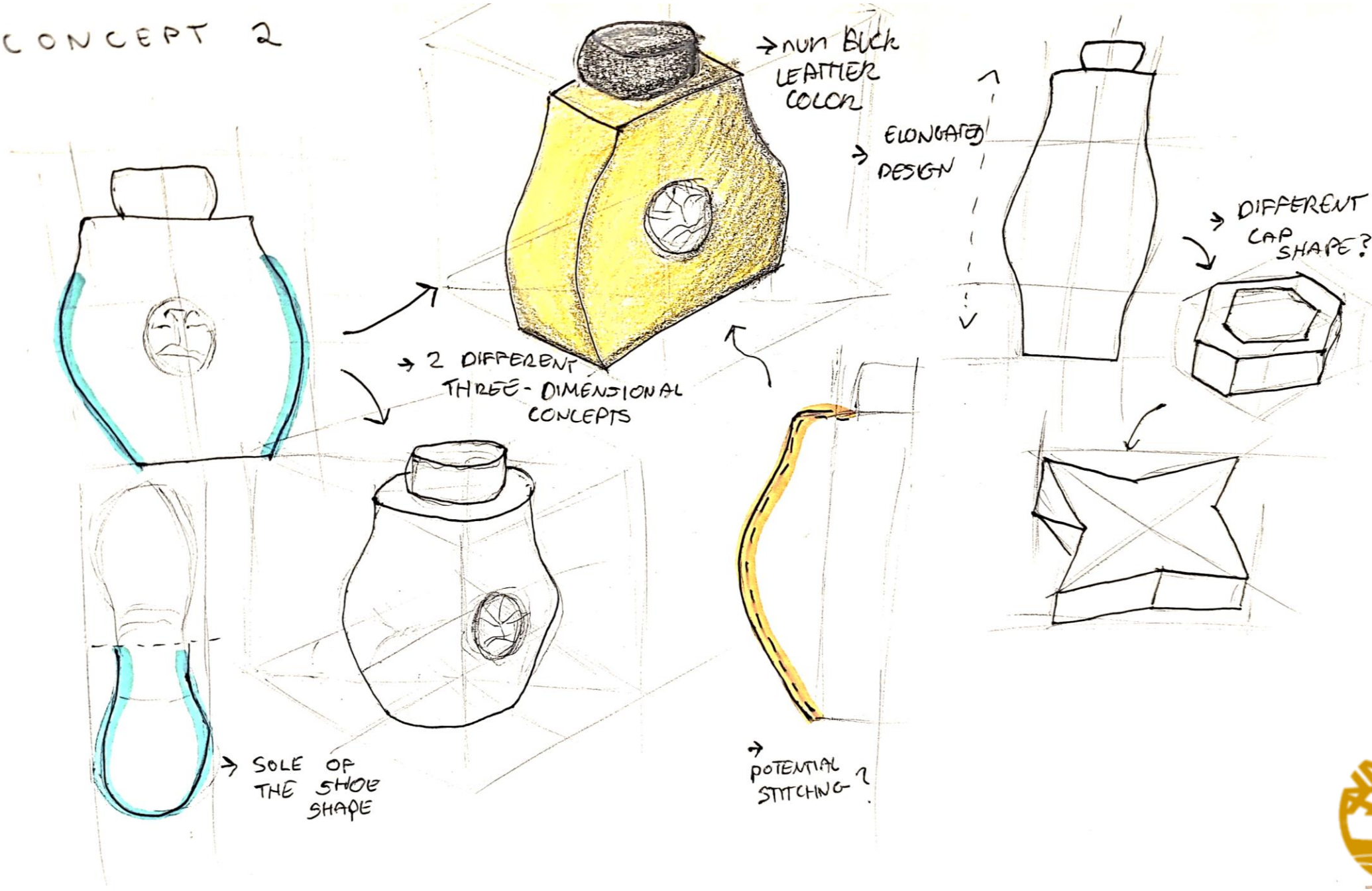
→ SHAPE OF THE SHOE SHAPE CONCEPTS


→ LACE SHAPE + HEIGHT..
→ HAS STITCHING, CURVED FORM OF BOOT
→ HEXAGONAL 'EYES' ON SHOE AS A BOTTLE
× TOO FLAT
→ BOTTLE REDESIGNED WITH STITCHES.. + LOGO
→ 'PADDED, COLLAR, CHUNKY ✓
→ HEIGHT ✓
→ STITCHING ON SIDE ✓
→ LOGO?
- TOO PLAIN

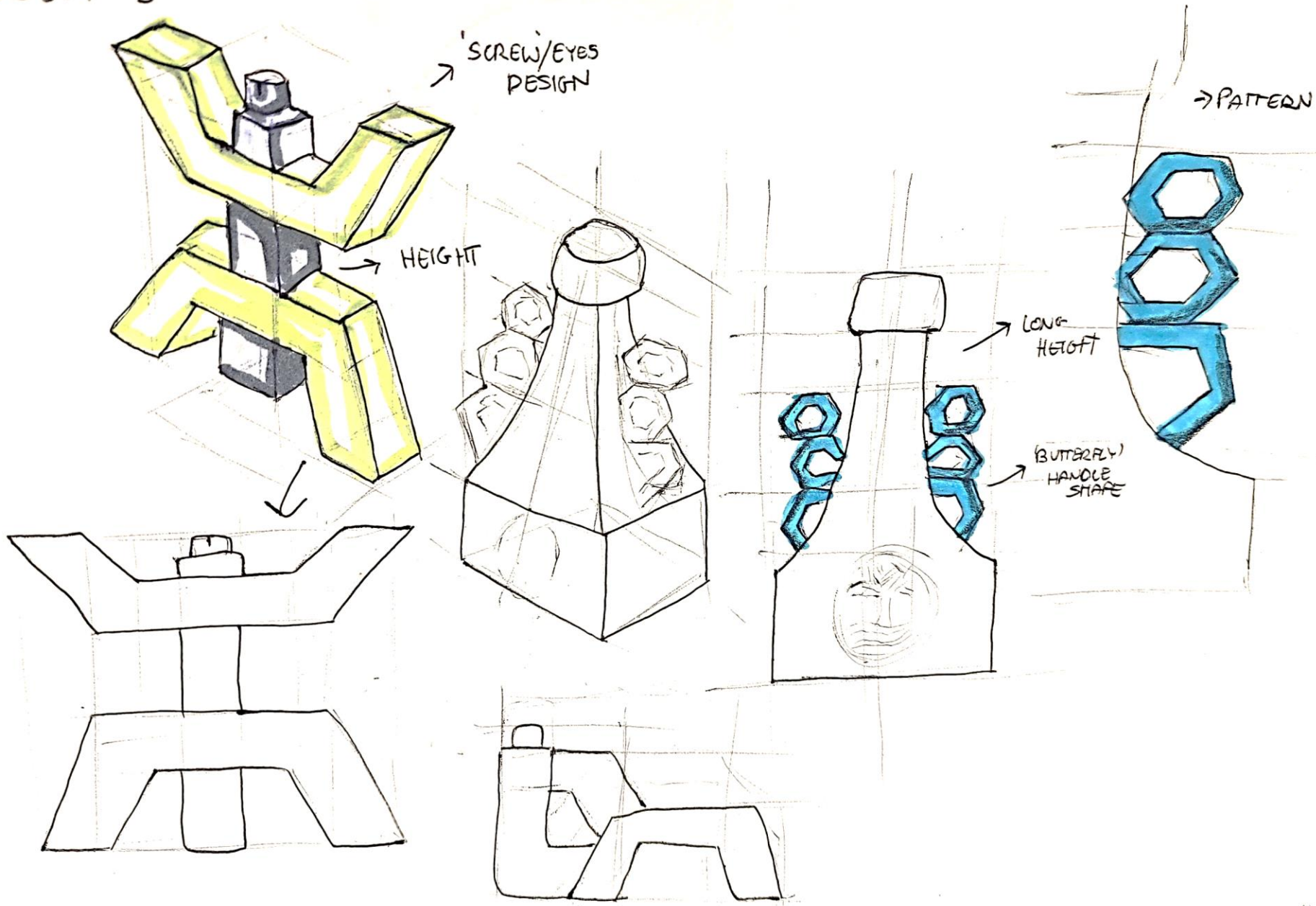
CONCEPT 1


SOLE?
→ SIMPLE
→ HEIGHT ✓
STITCHES
Logo
"PADDED COLLAR"
→ TOP OF BOTTLE HAS THE SHOE SHAPE.
→ SIMILAR DESIGN
→ SHOE SOLE SHAPE
ANOTHER CURVE FOR SHOE ADDED

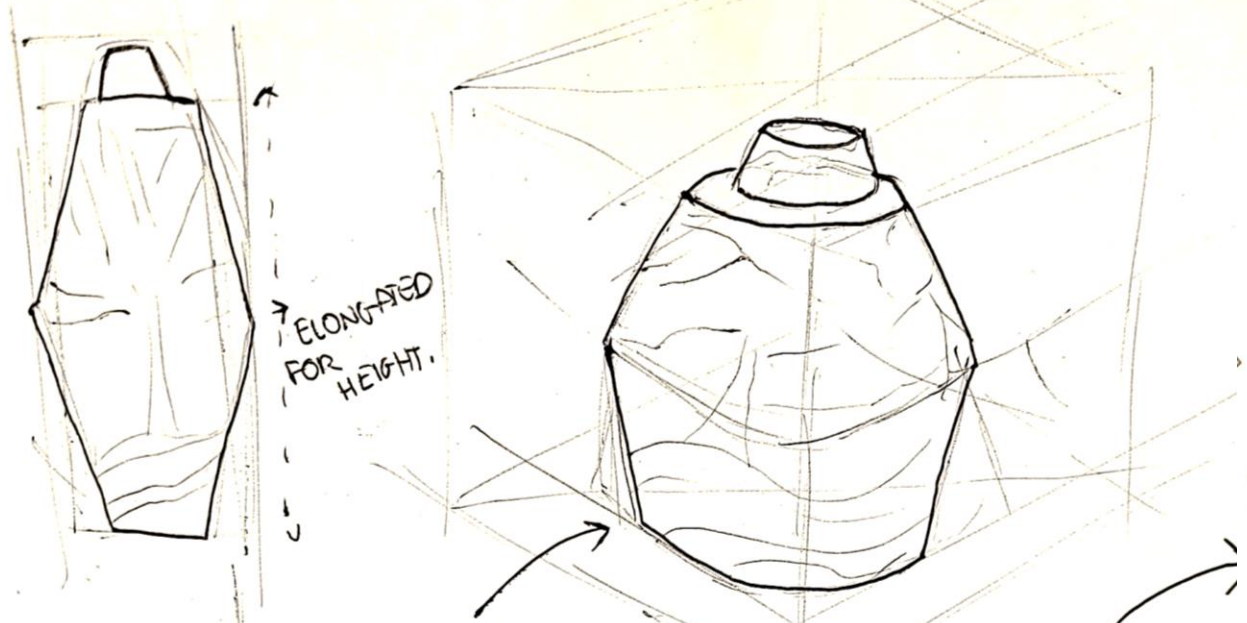
CONCEPT 2


→ NUBUCK LEATHER COLOR
→ ELONGATED DESIGN
→ DIFFERENT CAP SHAPE?
→ 2 DIFFERENT THREE-DIMENSIONAL CONCEPTS
→ SOLE OF THE SHOE SHAPE
→ POTENTIAL STITCHING ?

CONCEPT 3

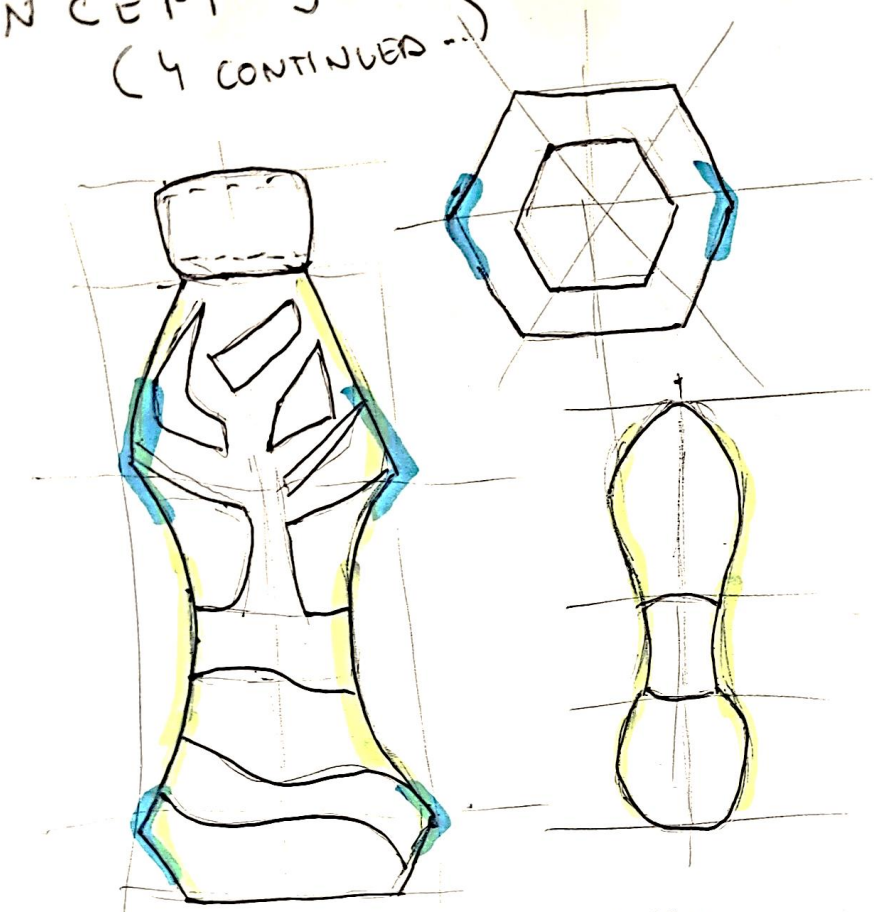

'SCREW/EYES DESIGN
HEIGHT
→PATTERN
LONG HEIGHT
(BUTTERFLY) HANDLE SHAPE

CONCEPT 4

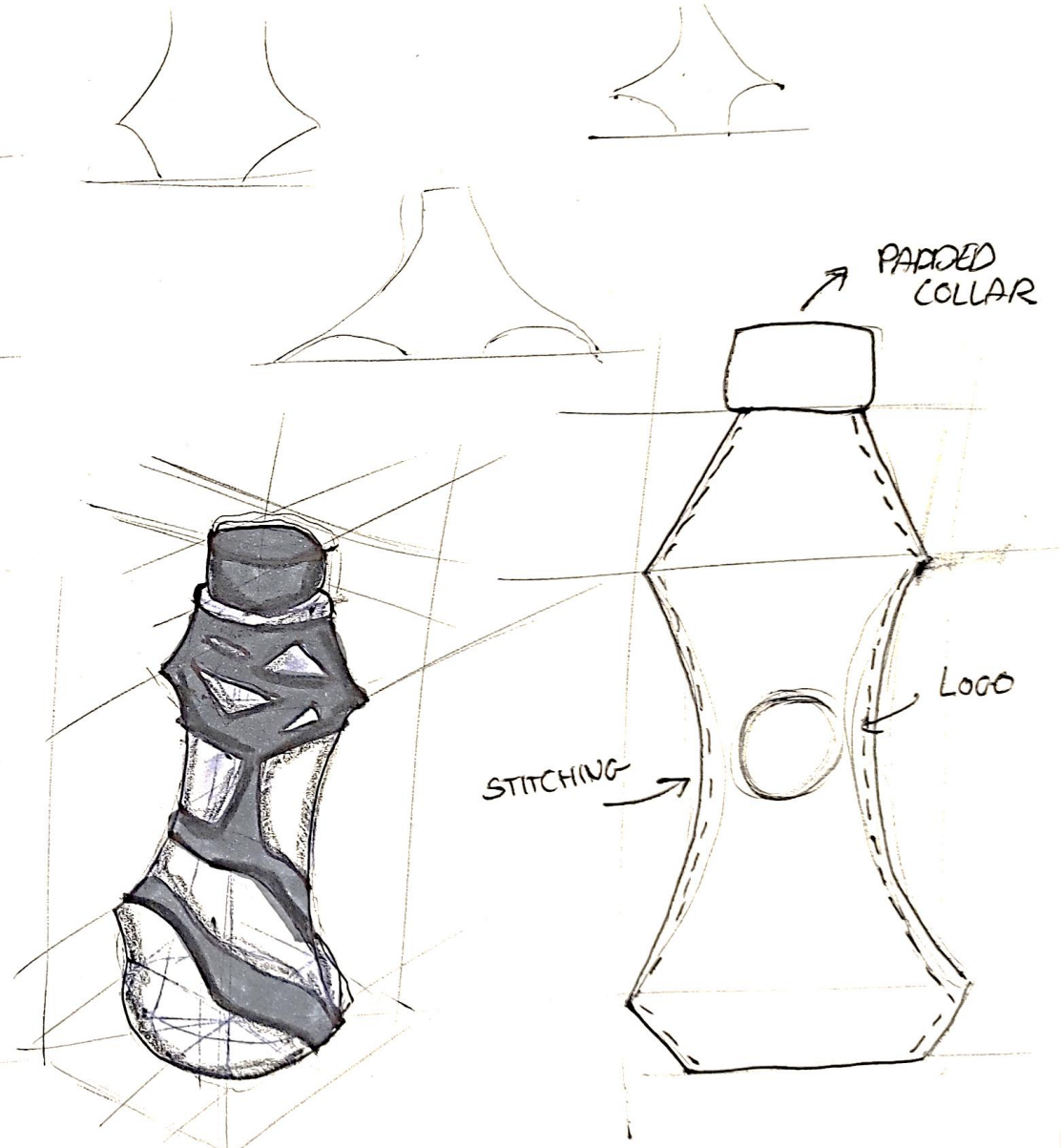


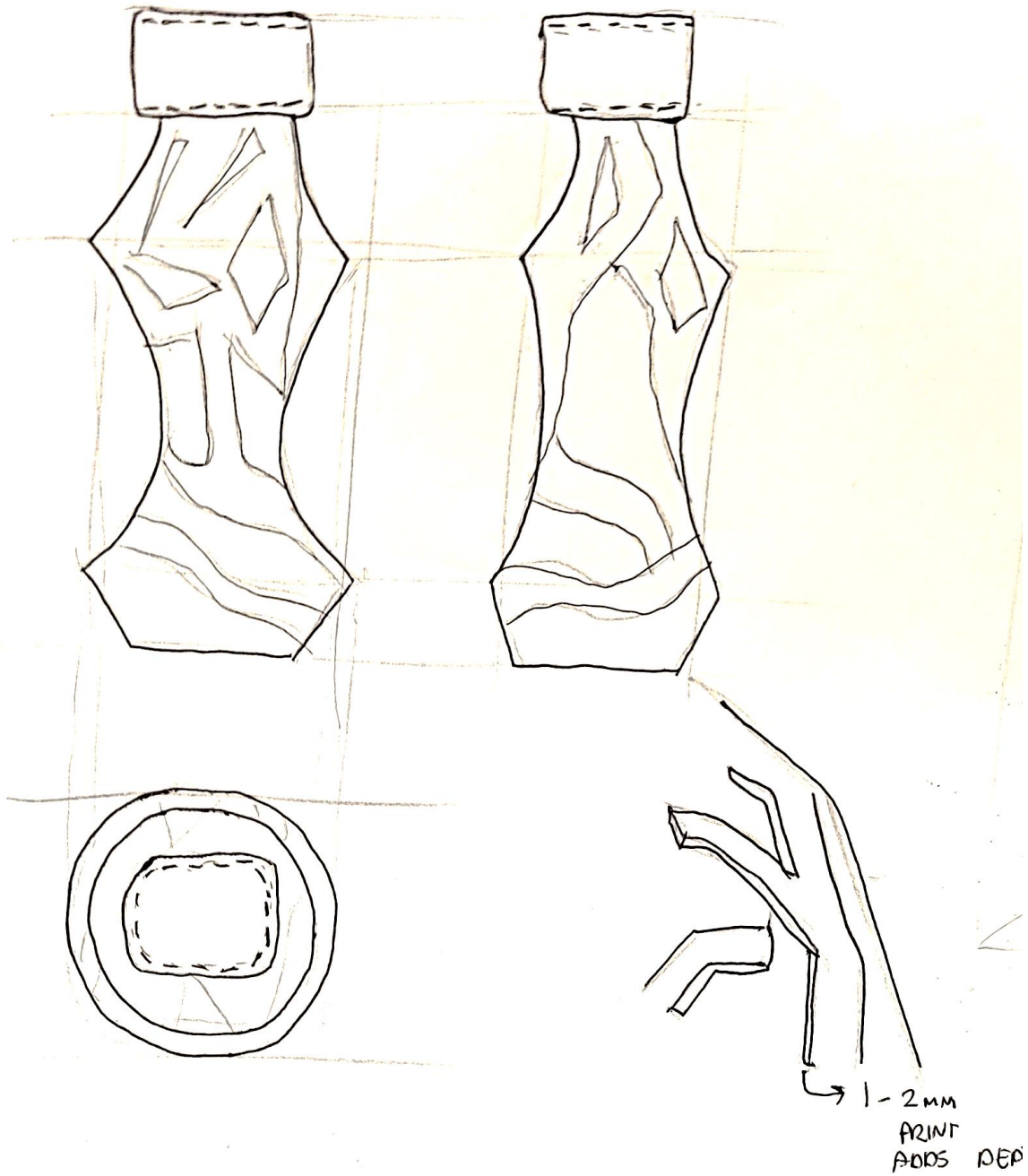
→ rendered, dramatic look

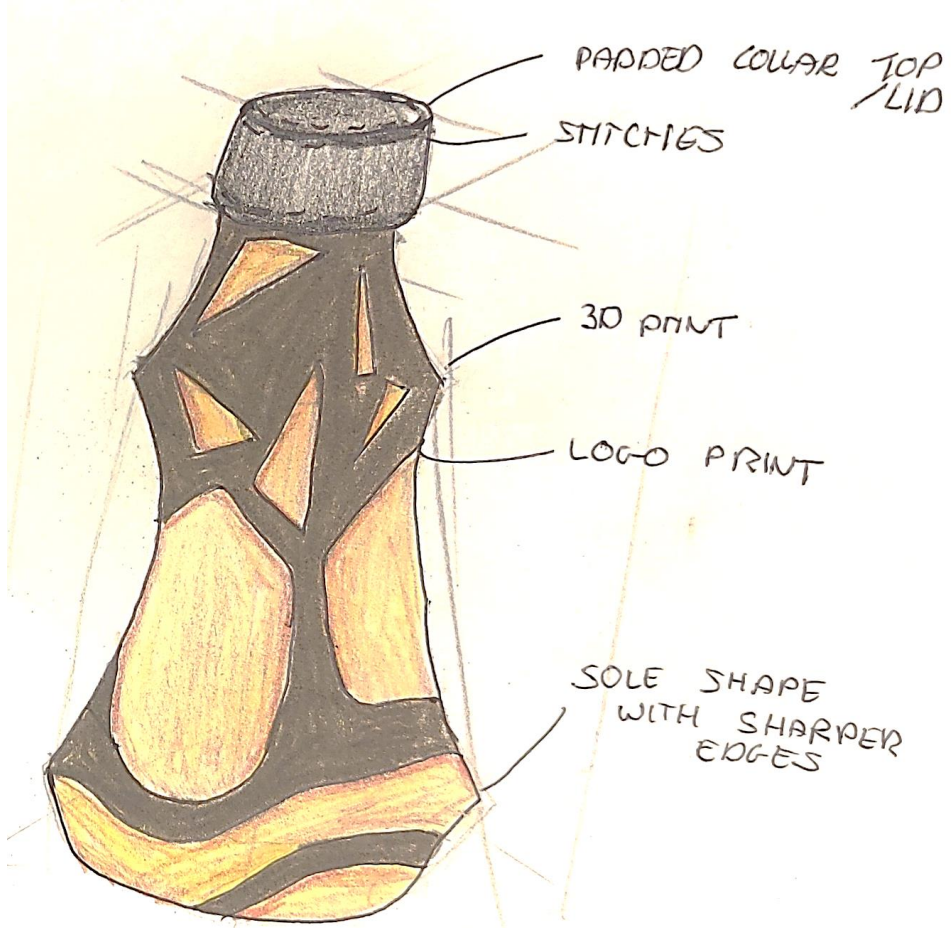
CONCEPT 5
(4 CONTINUED..)



↳ SIMILAR DESIGN TO 4, 3D PRINT

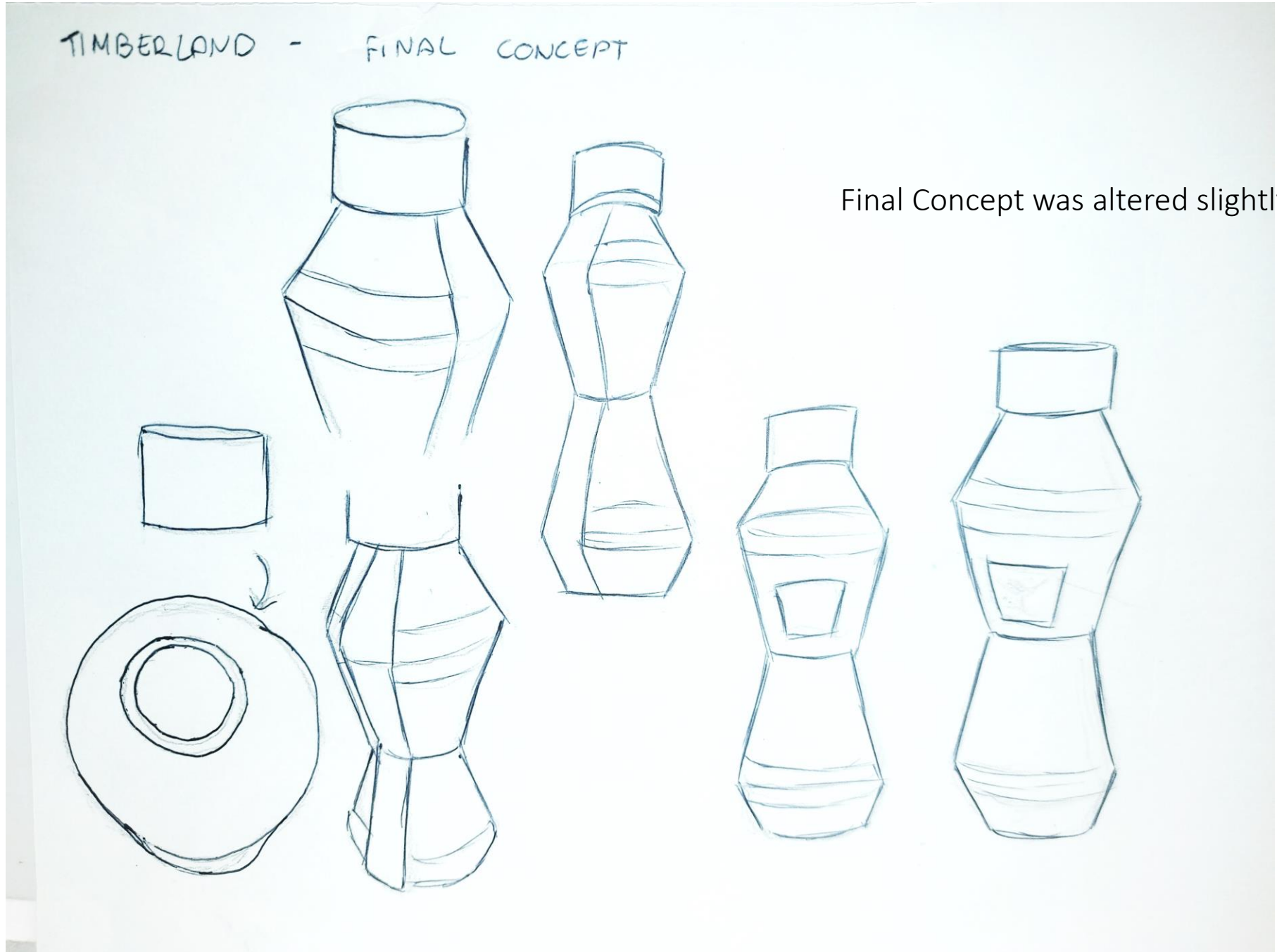



1-2mm
PRINT
ADDS DEP


PADDED COLLAR TOP /LID
STITCHES
3D PRINT
LOGO PRINT
SOLE SHAPE WITH SHARPER EDGES

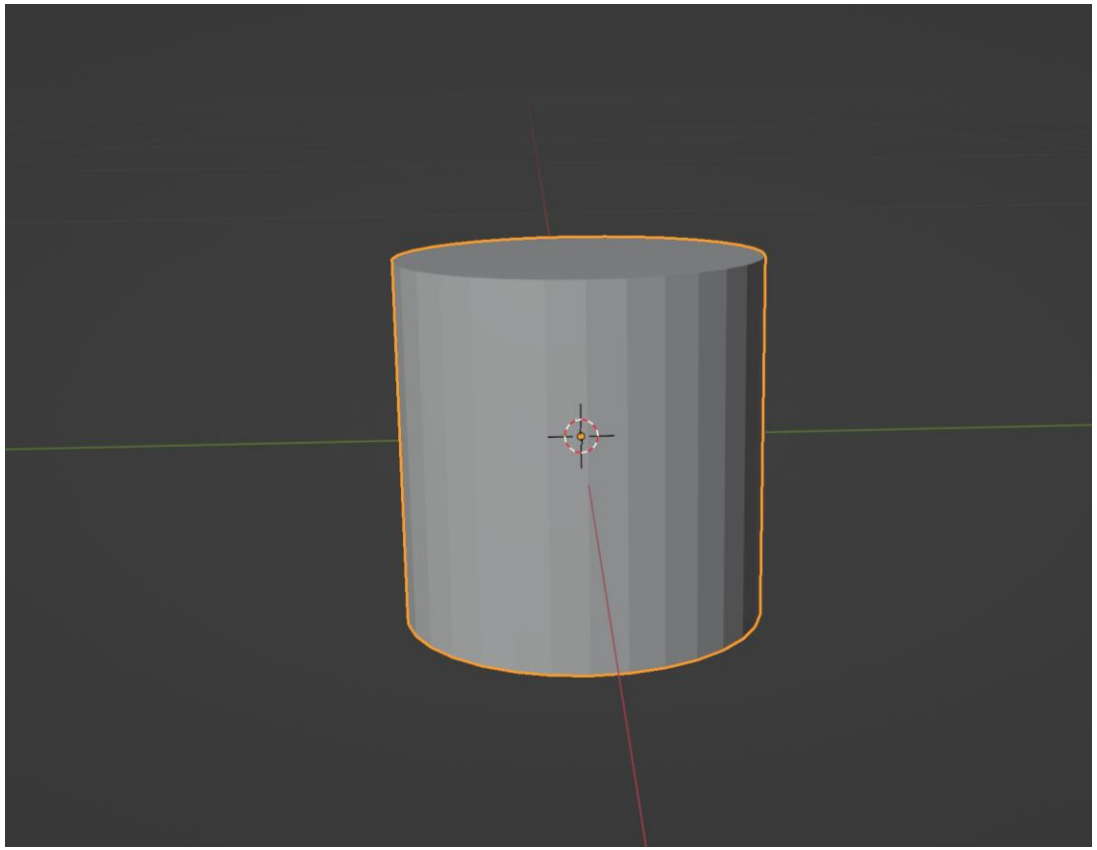
EPTH

NUBUCK LEATHER
PATTERN 'NATURE' COLOR
COLLAR /CAP COLOR

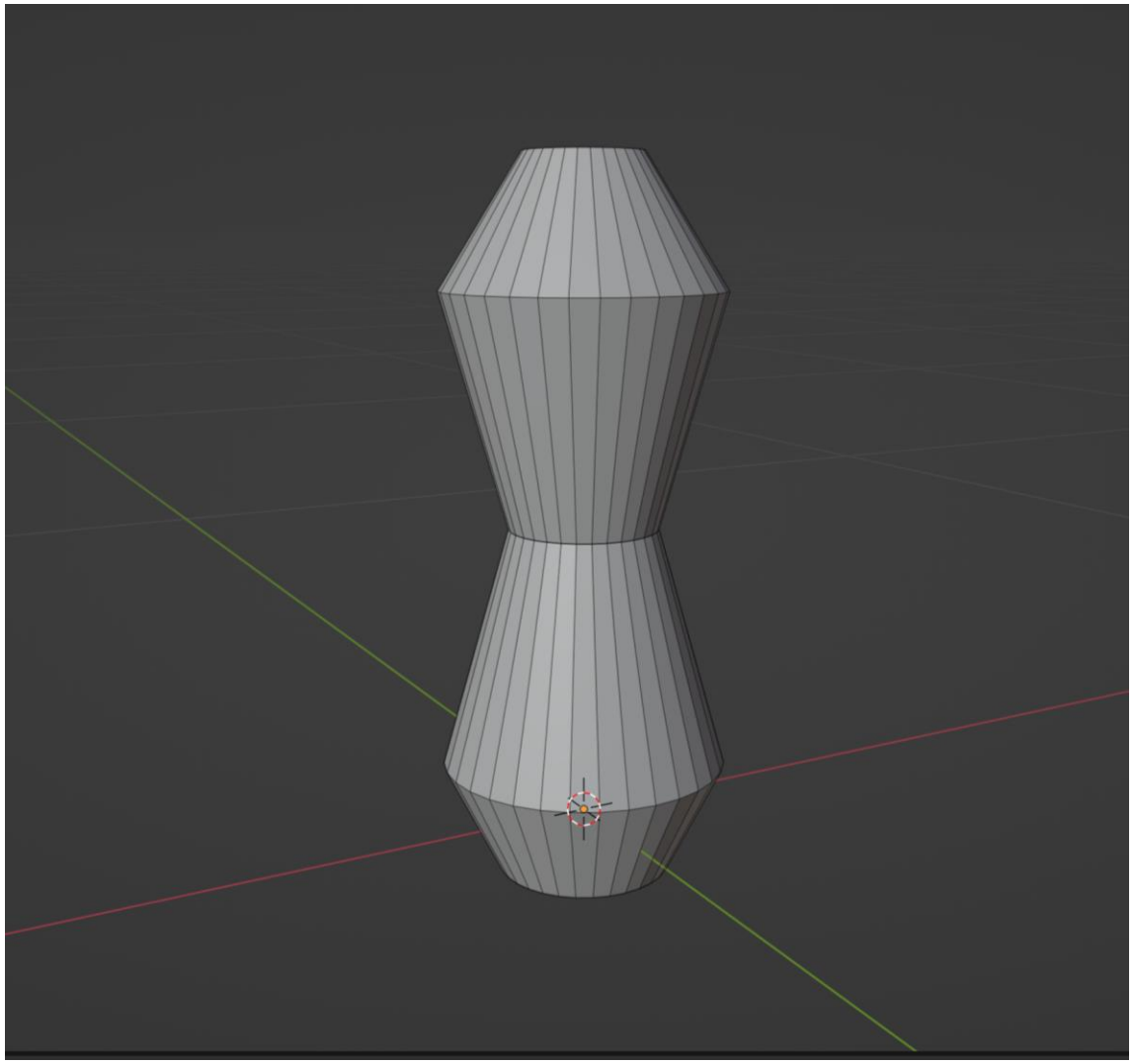


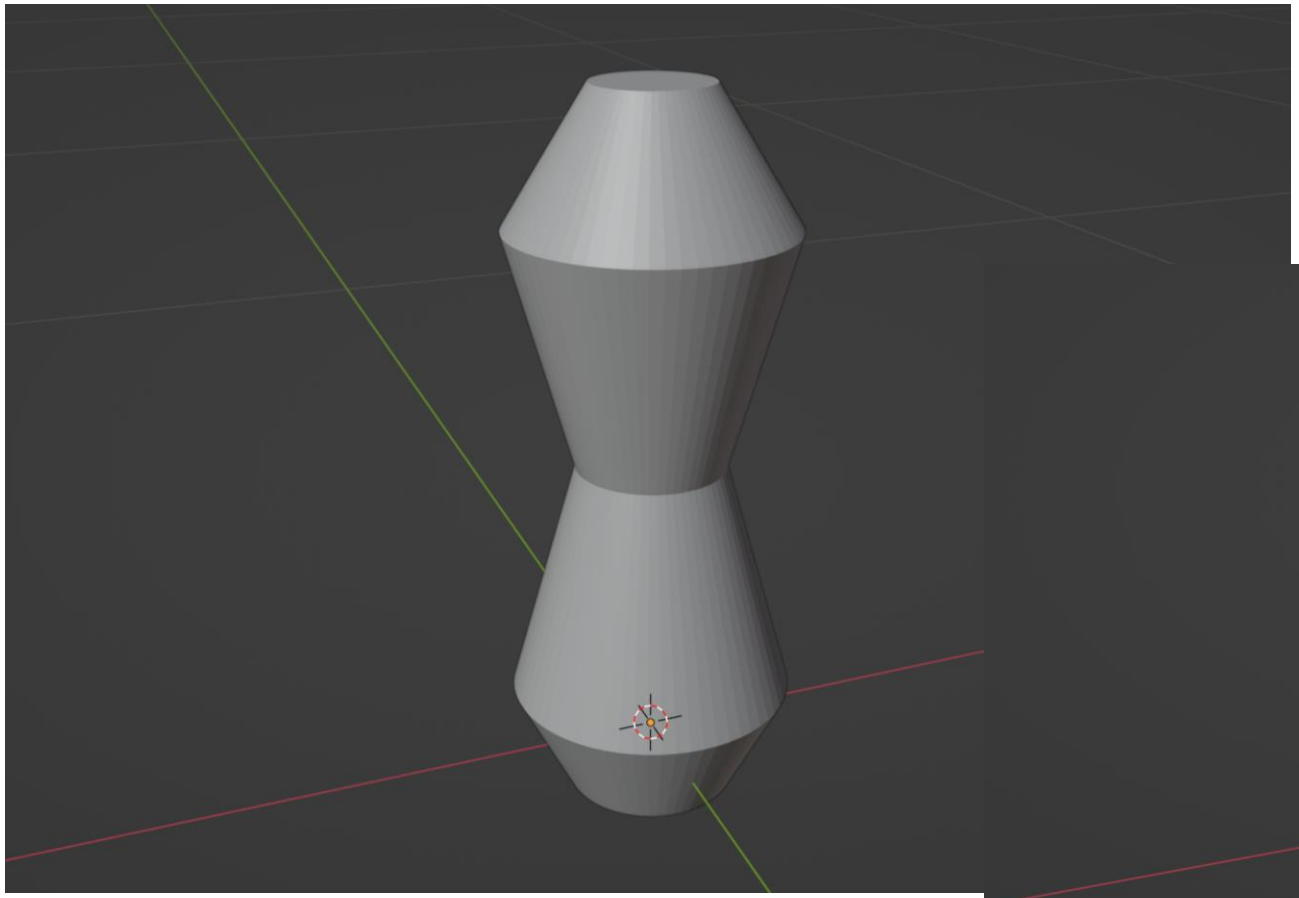
Final Concept was altered slightly…

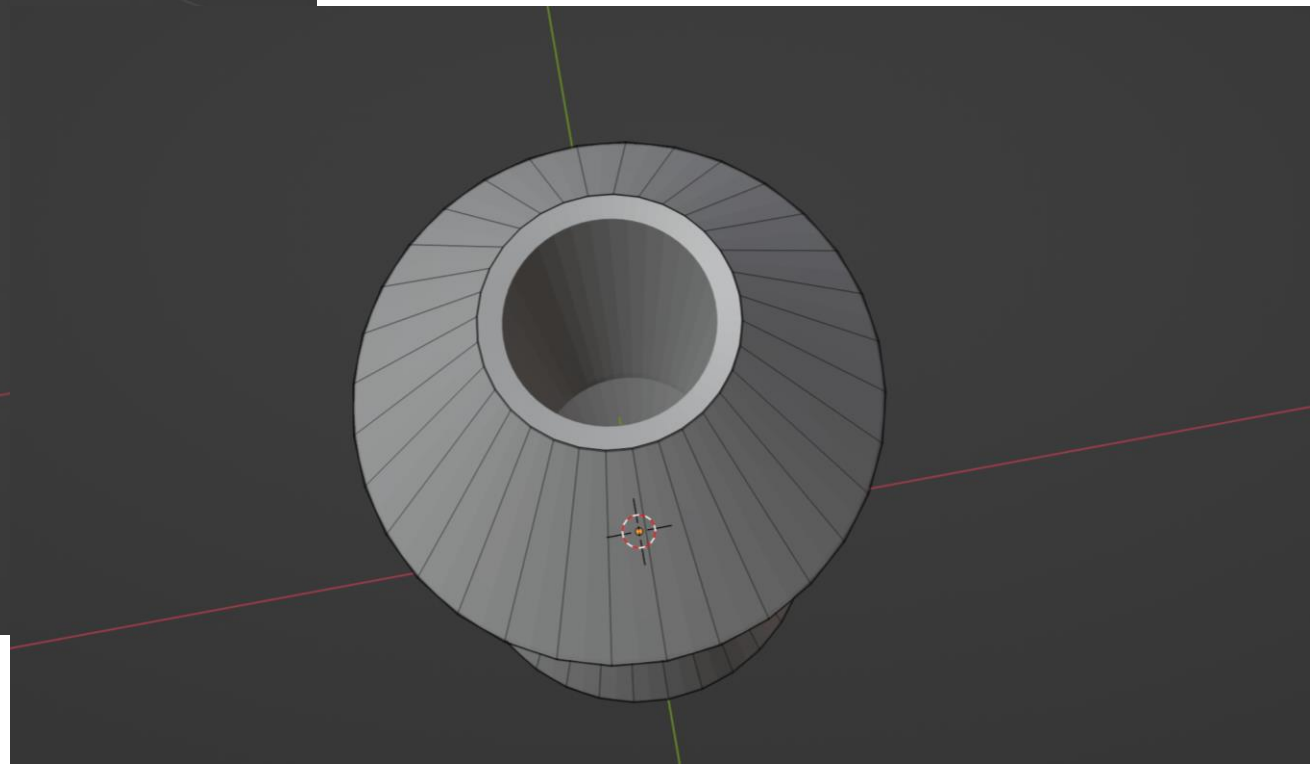
Concept Development



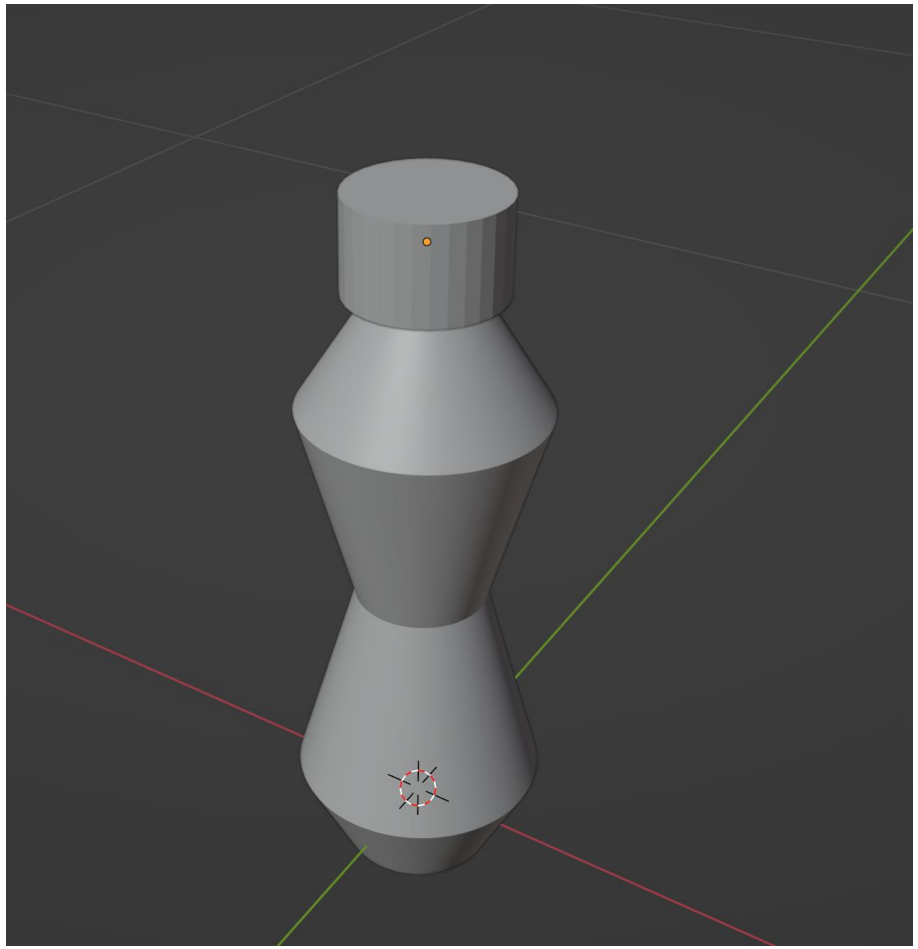
Started with a cylinder…

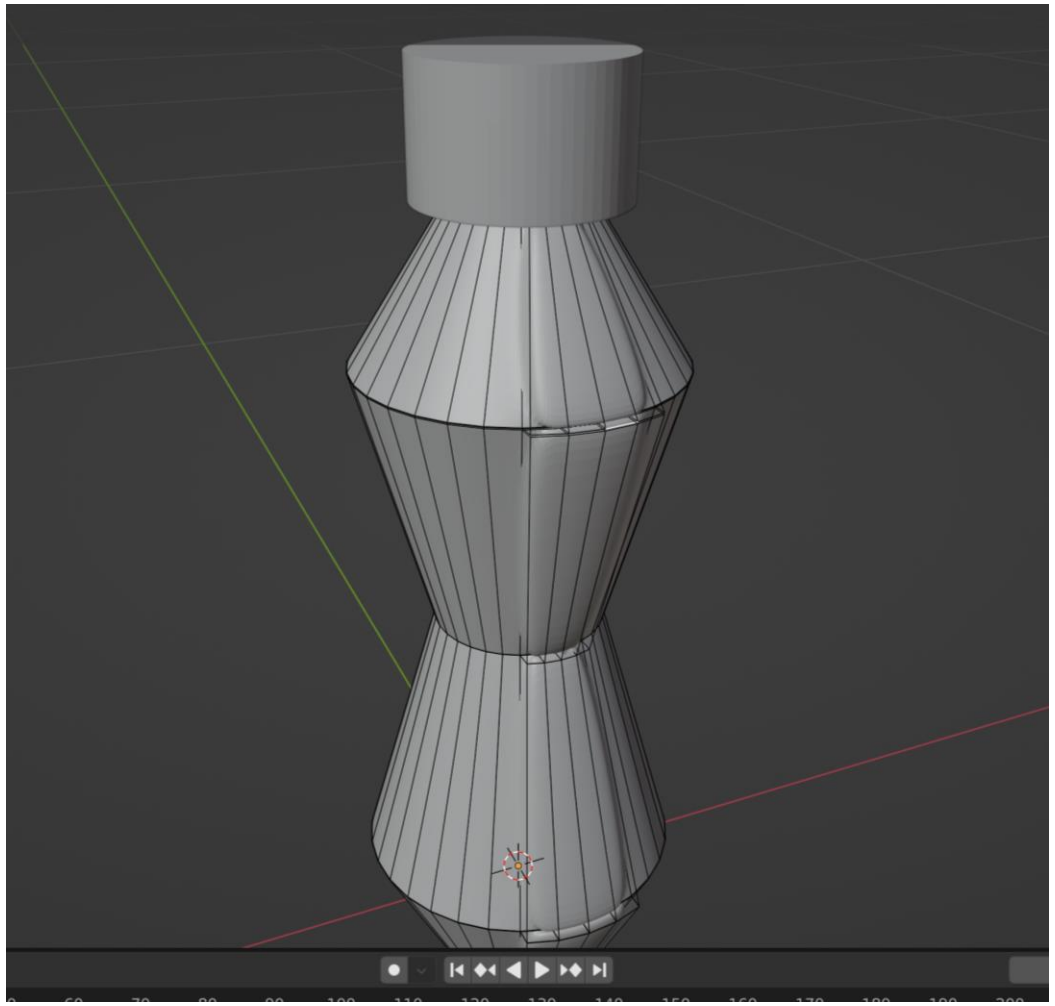






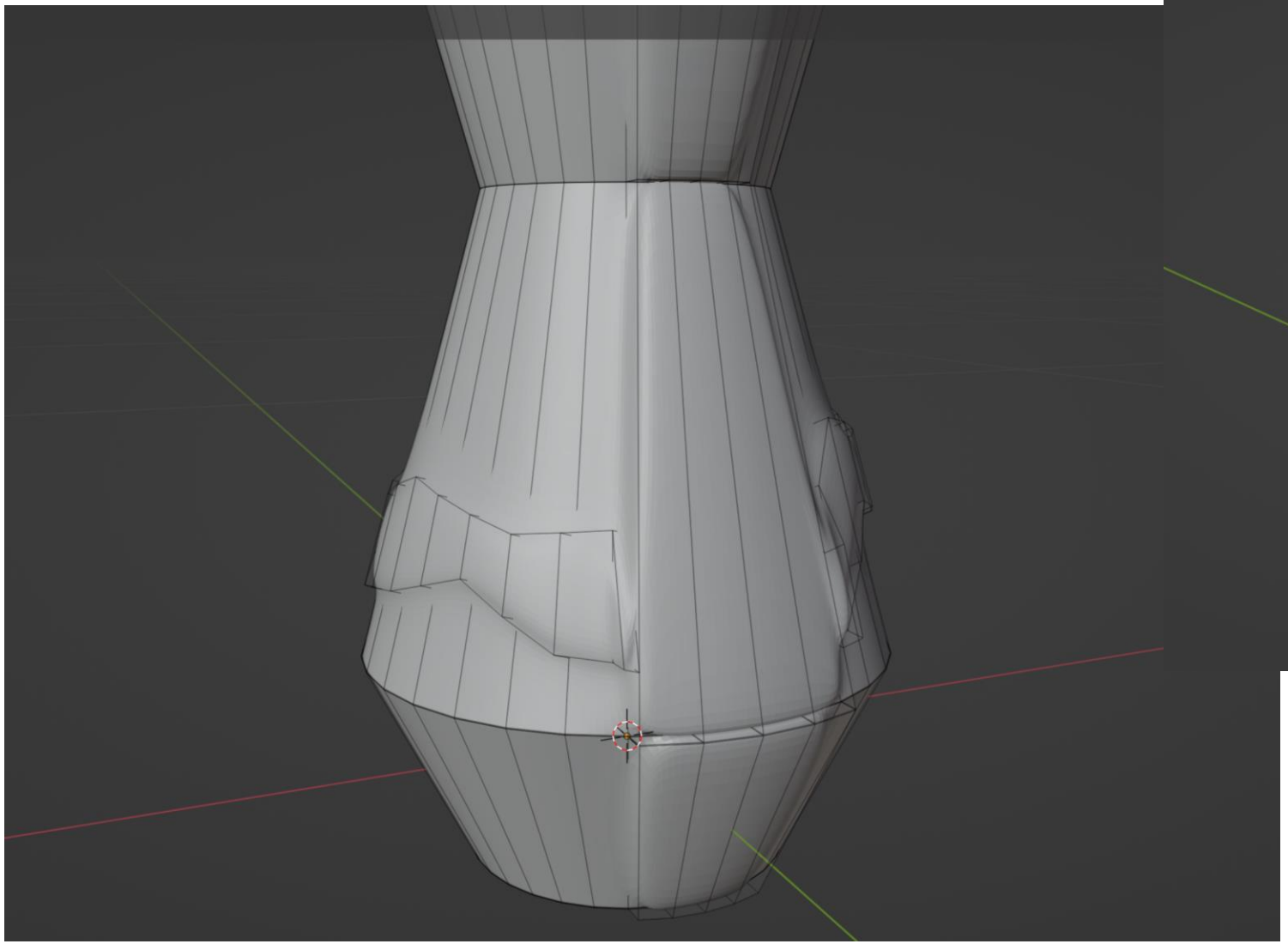
Solidified, subdivided…

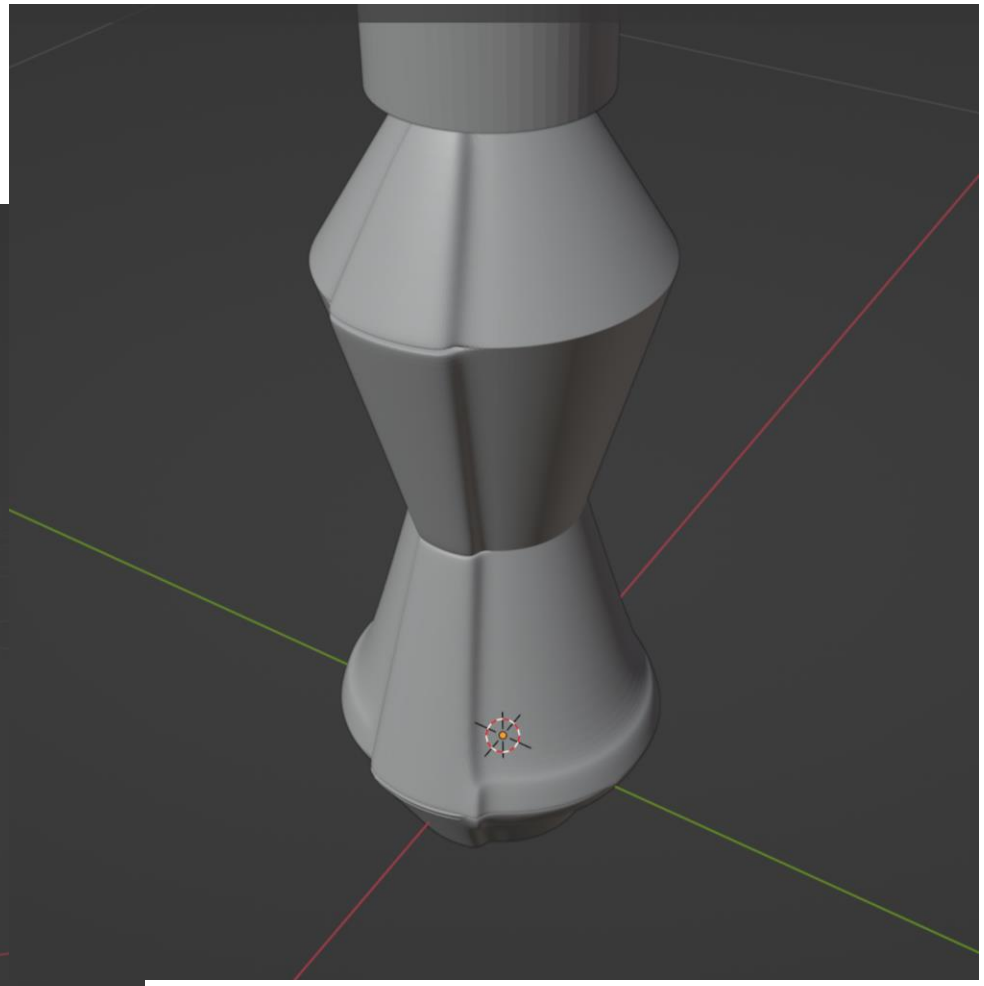




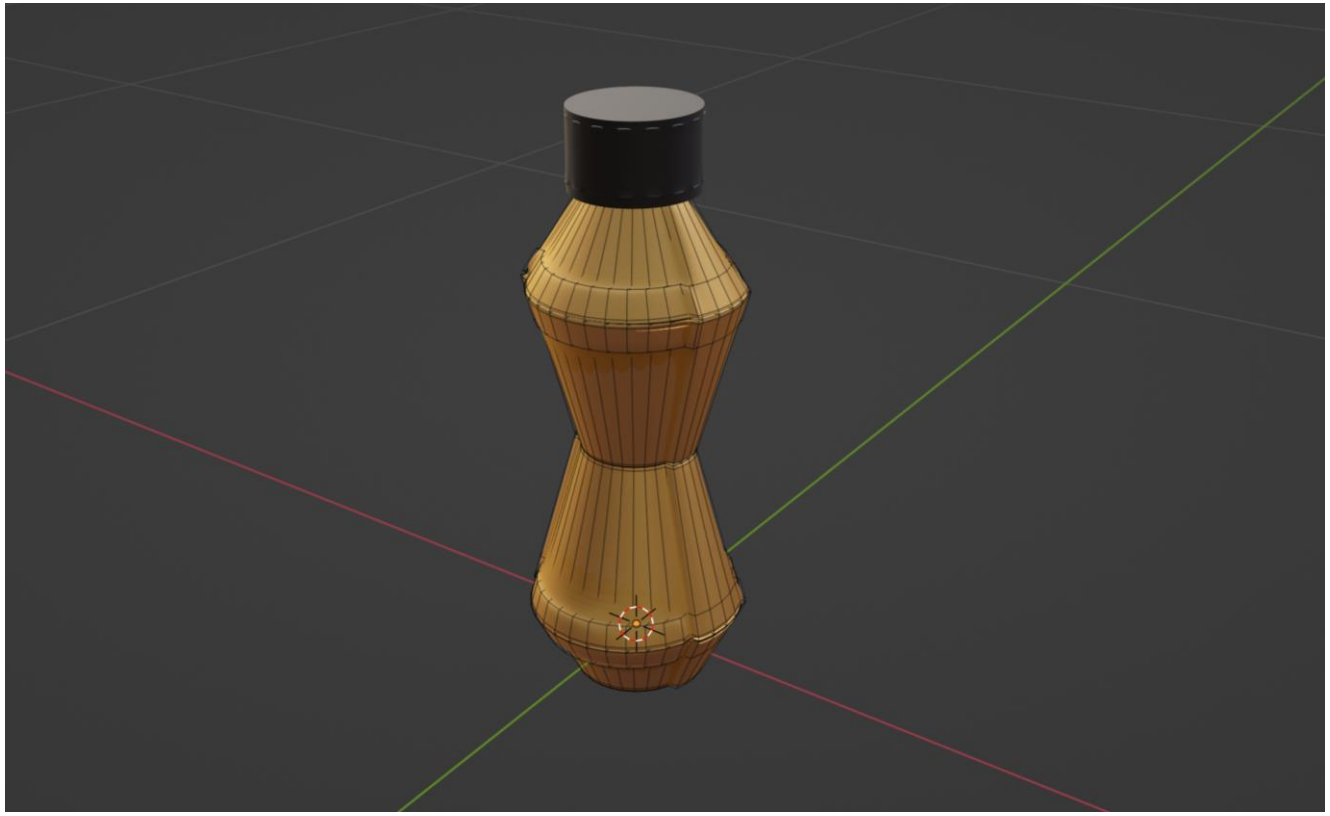
Made another cylinder for cap and linked them…

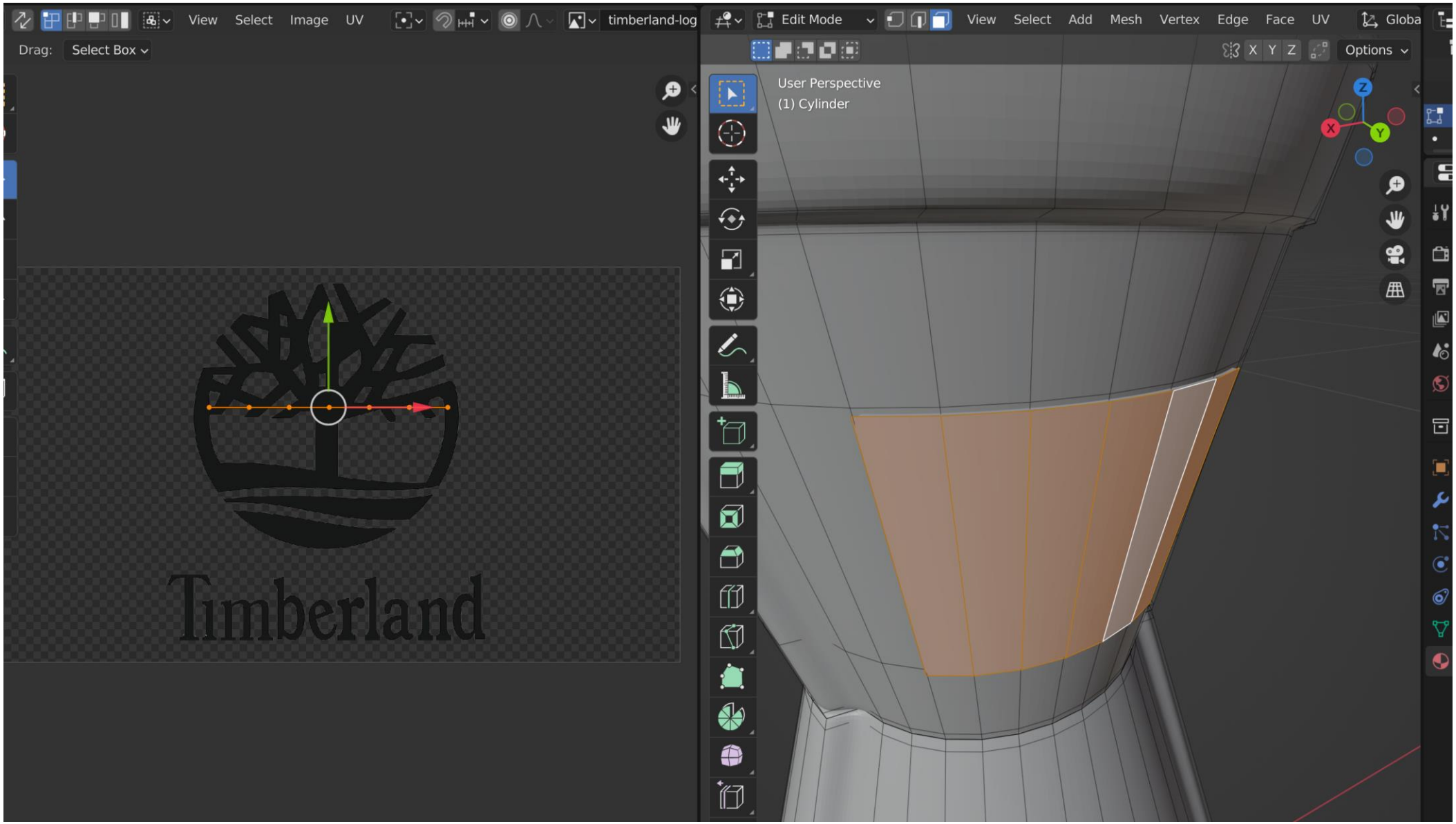
The original concept was too difficult to model for me in blender, therefore I altered the edges to still give the bottle the same depth and features instead.



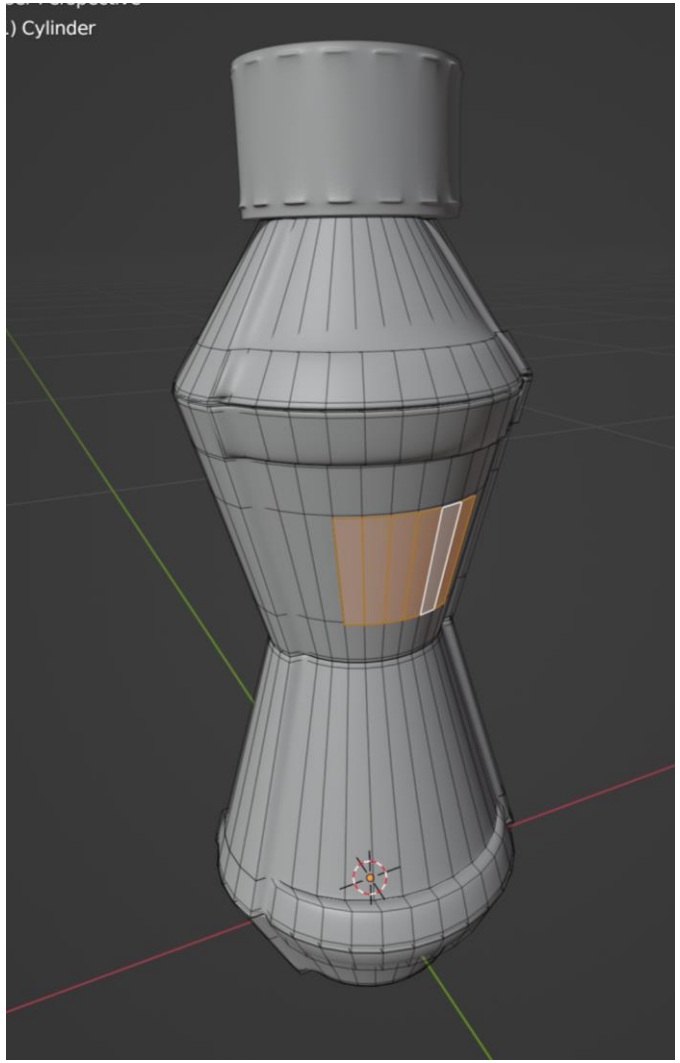


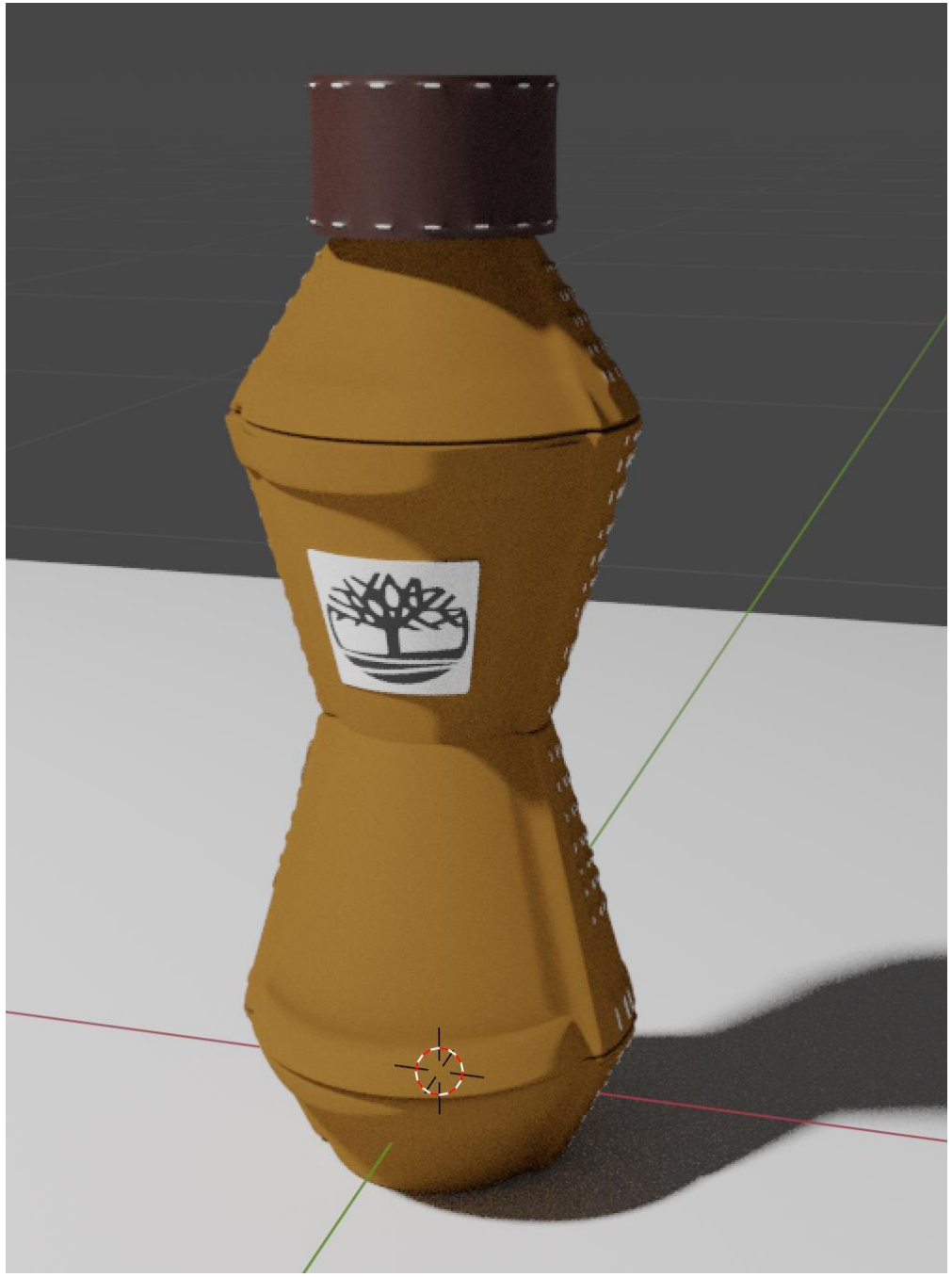
Deciding on the colour pallet of the bottle, sticking to the chosen final concept. Stitching was also added to the cap.



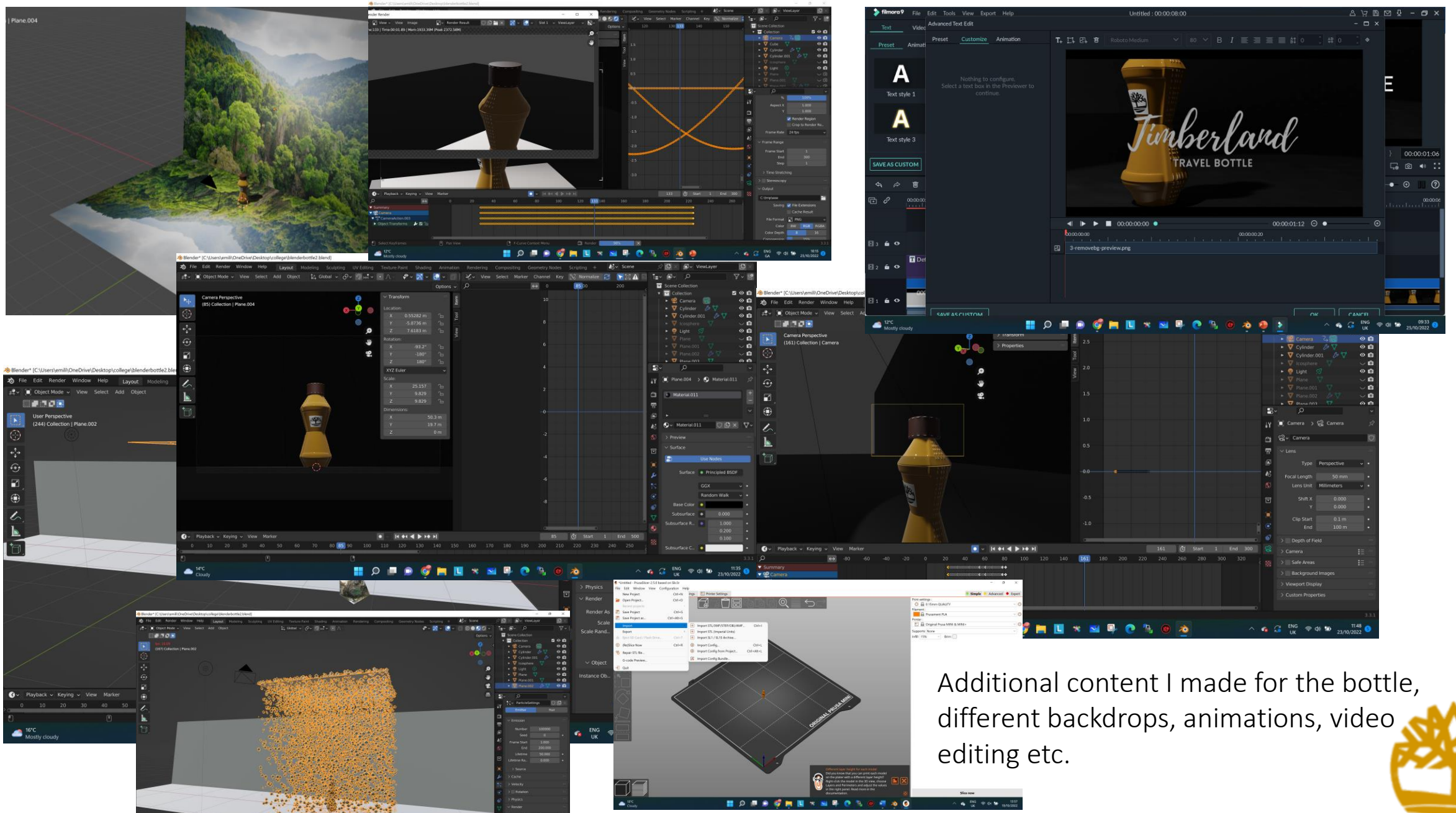


Still incorporated the Timberland logo as a sticker on the bottle instead.





Added 4 rows of stitching to the side representing the timberland shoe, the stitching is white to show more depth.



Additional content I made for the bottle, different backdrops, animations, video editing etc.

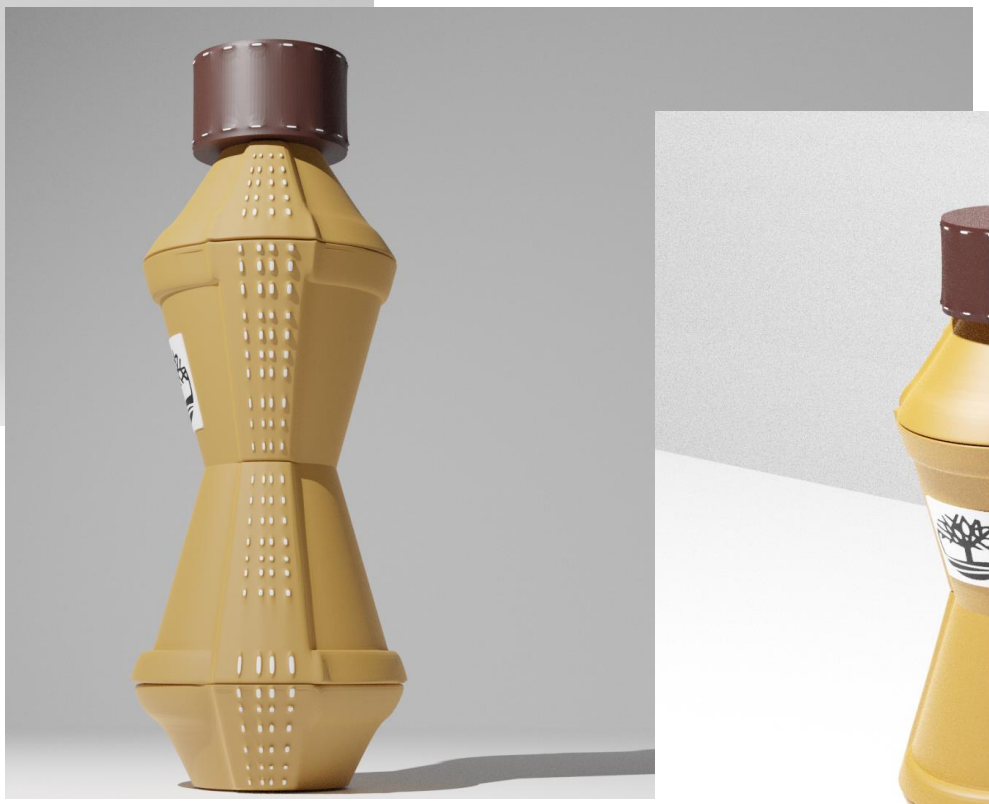
Light experimentation, the rain adding depth and making the scene more interesting.

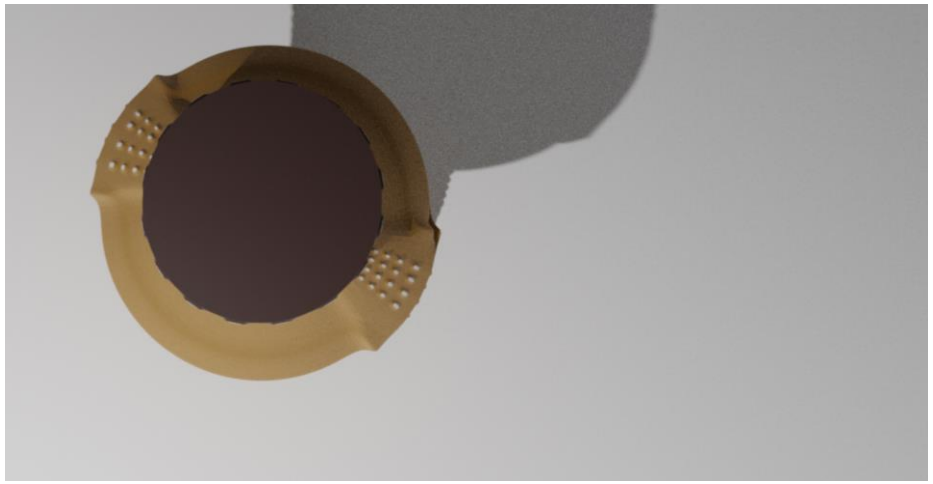
Different backdrops and settings…
Showing multiple bottles together….

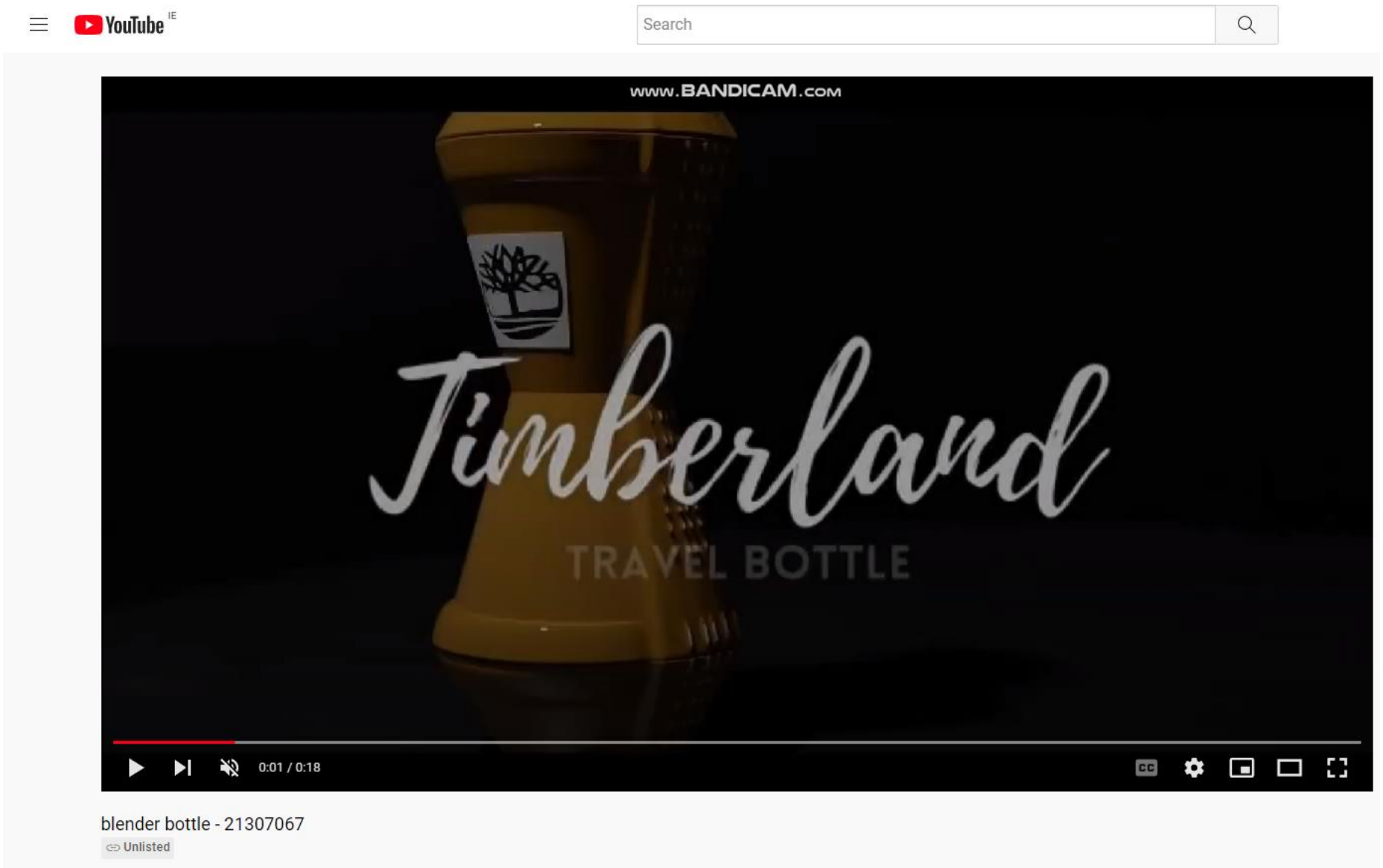
Final Concept

Timberland
TRAVEL BOTTLE

Elevation, plan and end view.







YouTube Link to a ‘promo’ video.

https://youtu.be/LXfKgN_10j0

Reflection

I found this project and module fun and engaging throughout the course of the 8 weeks. I liked the aspect of being able to choose our own company and not be restricted to what we have to design and model, I feel that this mirrors what its like working in industry for that company and it's aesthetic. I love sketching so I enjoyed Week 2 when we had to sketch our sample ideas, and I feel like the introduction to Blender by doing various mini projects was really helpful. This is why by the end when I have already designed my bottle I was motivated to do more by making my sample video and introducing myself to animation through various YouTube tutorials as well. I especially enjoyed the rendering aspect of this project and seeing the process of my bottle becoming realistic. In conclusion I truly liked this project and the module itself and I feel like it gave me a new set of skills which I want to keep improving and developing by using Blender.

https://www.mrporter.com/en-us/journal/fashion/how-the-timberland-boot-became-a-cultural-icon-693644
https://www.timberland.ie/customer-care/product-faqs/what-are-timberland-boots-made-of.html#:~:text=Most%20of%20our%20uppers%20are,which%20follow%20environmental%20best%20practices.
https://www.timberland.com/about-us/our-story.html