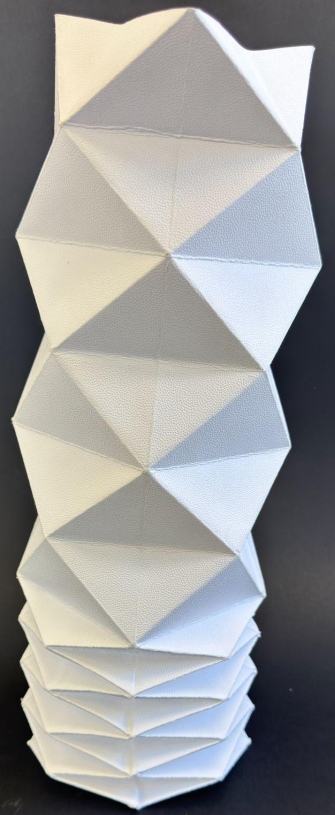


Tree Tower

By Gerald Peralta

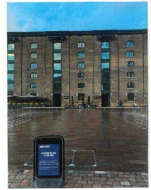


URBAN REGENERATION

PAPER
FOLD

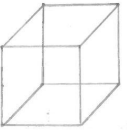
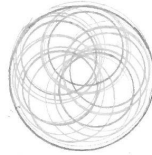


GASHOLDER

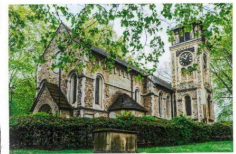


CSM

STRING



METAL



OLD
CHURCH

Poster

My aims for the project was to use vibrant aesthetics to uplift the urban space, due to lack of colour.

I want to create an organic and dynamic structure that integrates well with existing buildings and does not damage the environment. King Cross Is one of the largest redevelopments In London with a rich heritage and history of Industrial and transportation.

CONTEXT

HISTORICAL GASHOLDERS

KINGS CROSS
COAL DROPS YARD

CULTURAL

ECONOMIC IMPACT
PHYSICAL TRANSFORM
CREATIVE

PATHWAY

BELL PHILLIPS
ANTONI GAUDI
WILKINSON EYRE

PERSONAL

PLAYGROUND
PARKS

URBAN

CONNECTION

REGENERATION

ART & DESIGN

BANKSY
CAMILLE
WALALA
FELIPE PANTONE

END

USER

YOUNG ADULTS
ELDERLY
DISABLED

POLITICAL /

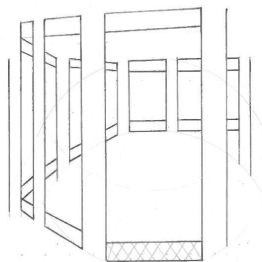
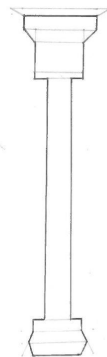
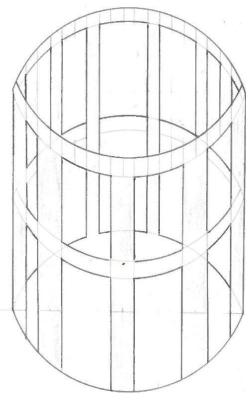
ETHICAL

GENTRIFICATION
SUSTAINABILITY
NEOLIBERAL

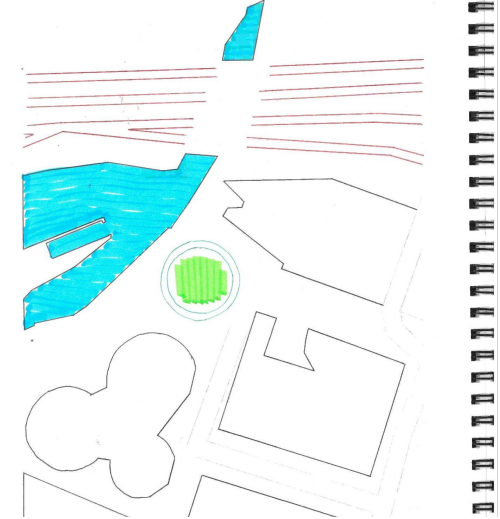
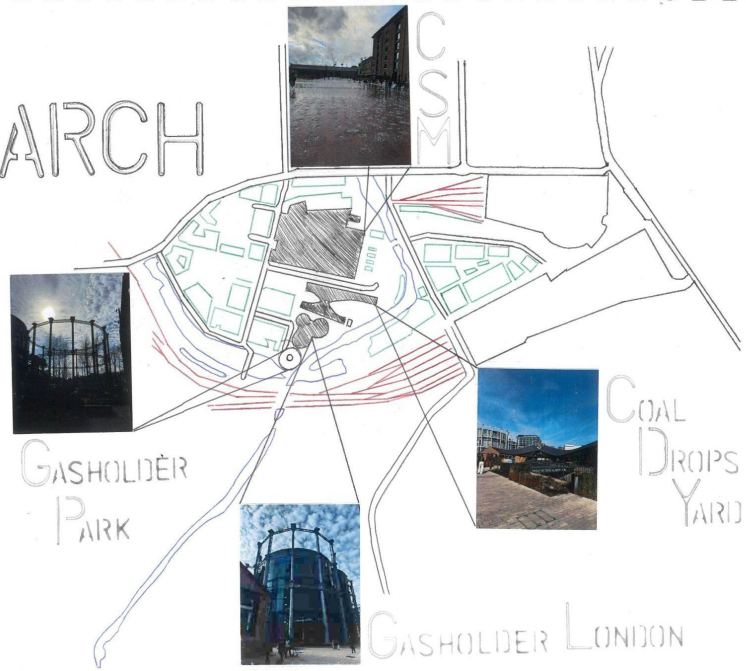
Thematic Research

By
Researching
multiple
outlets, It
allowed my to
consider the
direction of
my outcome.

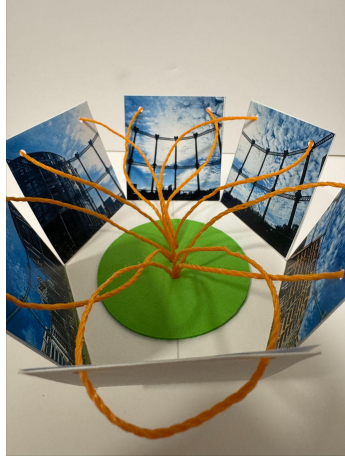
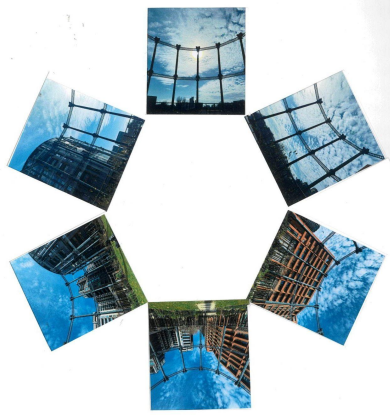
SKETCH



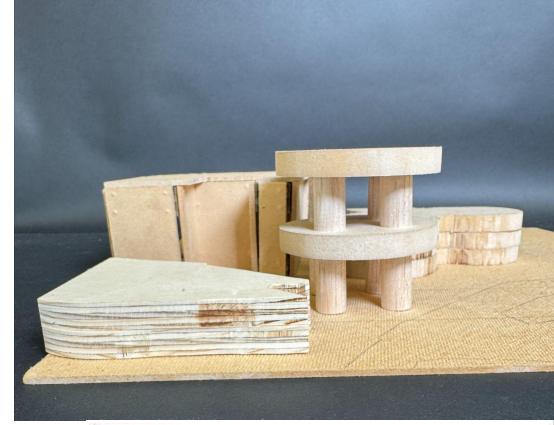
SITE RESEARCH



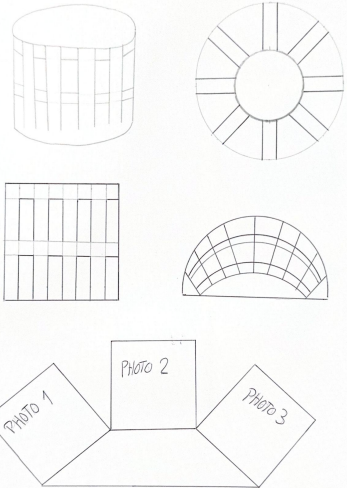
By visiting the King Cross, I chosen to implement my design In Gasholder Park, due to Its location and the open space.



In the Site Model, I used the wood workshop to create the model. Hoping to translate these skills to my Final Model.

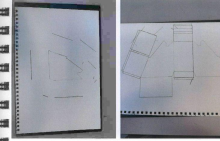


DESIGN IN A DAY



Designing the Diorama, I wanted to create a connection from the center, to the pillars of the gasholder.

PLANNING



The first was to print out a map of the Site, with DigbyMeyn and measure the size of the nearby buildings, the buildings I cut out were the Gasholders, the Indoor Sport facility, and the King's Cross Academy.

The first thing I did was draw out the shape, I added lines to each panel to create a paper prototype. I knew that the inside would be infinitely so to deal with this problem I will be visiting the wood workshop.

INSIDE SPORT

PARK

KING'S CROSS
ACADEMY

GASHOLDERS

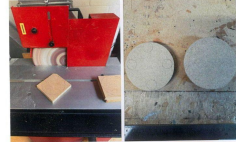
PROCESS

By checking the scrap box I was able to salvage plans to create my structures. The reason for this is to maintain sustainability through my work and to challenge myself as a designer.

I experimented with using trim door hinges to connect the panels. I found how they are suitable/being influenced by drilling paper.

However, it is very time-consuming, taking most of the day to make one whole structure so I will cut off bits and tangle them together with PVA.

The benefits of this method are that it will increase productivity, allowing me to make the rest of the structure.

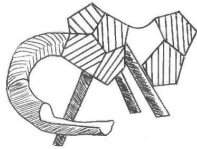
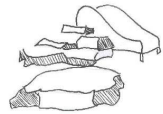
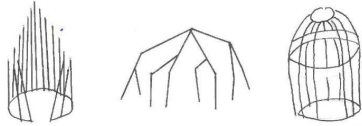


But for the Gasholders, I have to consider how to create the pillar. I decided to drill a 16mm hole through one of the circles and the other, making so it's more portable after usage.



After constructing the structures, I polished them with a Sanding machine.

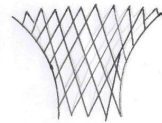
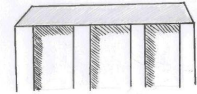
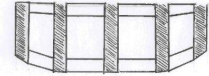
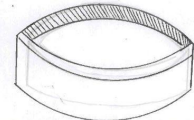
LETS DRAW



Formal Research

These are drawing of structures that was taken from my Find 50. At this point I didn't know the form to consider of creating my structure.

LETS DRAW



Casa Batlló by Antonio Gaudí

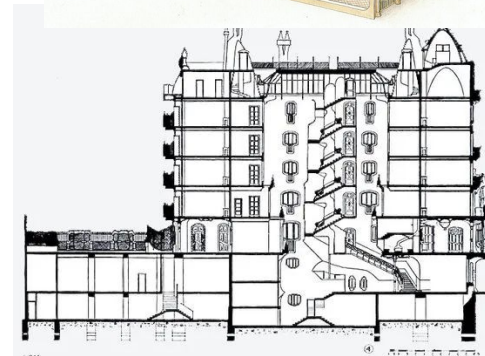
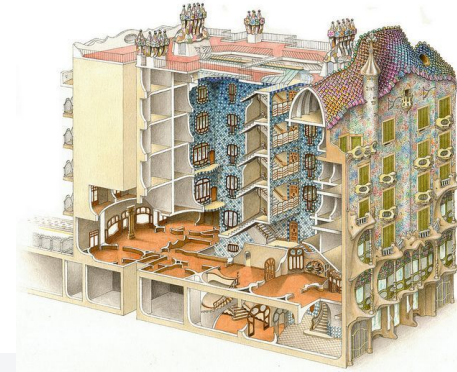
Built In 1877 but was renovated by Gaudí In 1904-1906, In Barcelona Spain

Gaudí incorporates nature and organic form In this building creating a calming and relaxing space. He considers the environment Into his design using natural light to reflect the surface of the tiles and ceramics. The materials used are Stone, Ceramic Tiles, Glass, Iron, Wood and plaster.

He uses colour to create emotion In the space, as the interior of “Patio de luces” has dark blue from the top and gradually lighter to the bottom, allowing the light to be shared from each floor.

The exterior of the roof resembles scales of a dragon, to represent the legend of St George and the dragon.

The issues with the buildinging Is that due to Its intricate stonework and ceramics, It requerces contest mentaines and to repurposing the space will be limited not fitting the modern needs easily.



MATERIAL

REBIRTH
LOTUS FLOWER



RECOVERY
STRETCHING



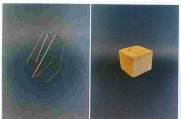
EVOLVING
CACTUS



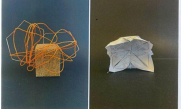
Form Exploration

By coming up with word that relate to my theme "Urban Regeneration" I came across words like Rebirth, Recover and Evolution, leading my to construct sample structures.

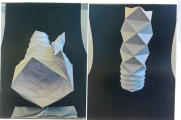
WORKSHOP



1st Model - While drawing an image of the related word on a postcard note, I then used a pencil to pull lines on the base of the structure, metal wire, each string connected to the blocks to create a playful space.



2nd Model - In this sample, I constructed an Dragon Lakes and connected the edges with a wire confusion string to pull the structure together.



3rd Model - The last structure, led me to replicate an old, built model that I used as a template, which I put each string to connect the inside of the structure. This led me to come up with a concept to implement a playground on the site.

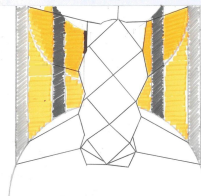
At this point, It was clear that I want to create an playable space In the Site, incorporating the usage various times of the day.

I came up of ideas that I could implement like obstacles to reach the top, a tower to see the whole area of King Cross and climbing a Spider Web.

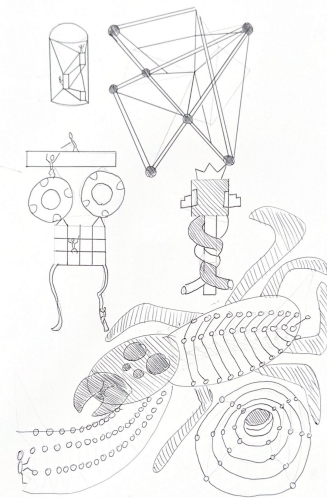
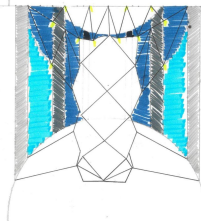
BIG CONCEPT

My Big Concept is to form a climbable structure in the center of Cambridge Lane to encourage young adults to interact in the space. If this structure I will create areas, which that can be part of the Site.

DAY



NIGHT

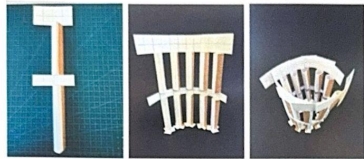




PAPER STRAW

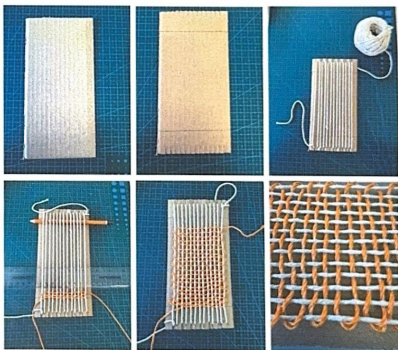
I constructed my straws using 2cm x 2cm square grid to get a rough idea of how to create the oysterhollow pillars. The process took a whole day to complete.

The issues were that there wasn't a way to keep a whole fluid circular shape, as there wasn't a strong grip between the straws. I hope to develop them further when implementing them in my Final Model.



I created a weaving loom with recycled materials around the studio. I had some experience with sewing, so this process wasn't difficult to do, but it takes time to execute the outcome. This process also took a day to complete.

An obstacle I came across was that the orange thread was thicker compared with the other thread, so I had to be patient with the process. I hope to experiment with incorporating a pattern in my design.



NEXT STEP:

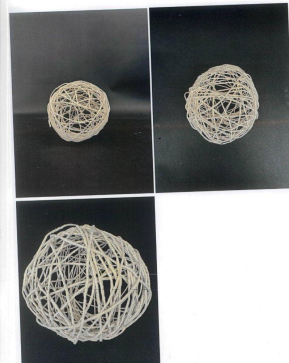
Explore patterns

WEAVING

Material Exploration

From developing old techniques and exploring new ones, I enjoyed the making process, I knew that I wanted to move away from paper, so that I can gain a more creative approach In designing my Model.

BALLOON CASTING



I worked with Balloon casting to create a string ball. The process consists of a balloon, a string, and PVA mixed with water. This was a development from my sugar work.

The problem I encountered was that the structure was very fragile, so to overcome this, I had to create more layers so it kept its shape. This process took 3 days.

This was influenced by Spillers as they are creatures that create detailed symmetrical webs with their silk.

NEXT STEP:

I will be experimenting with light as I want to play around with the structure's shadow and consider time zones.

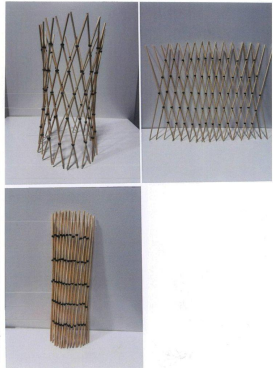
STICKS & ELASTIC BANDS

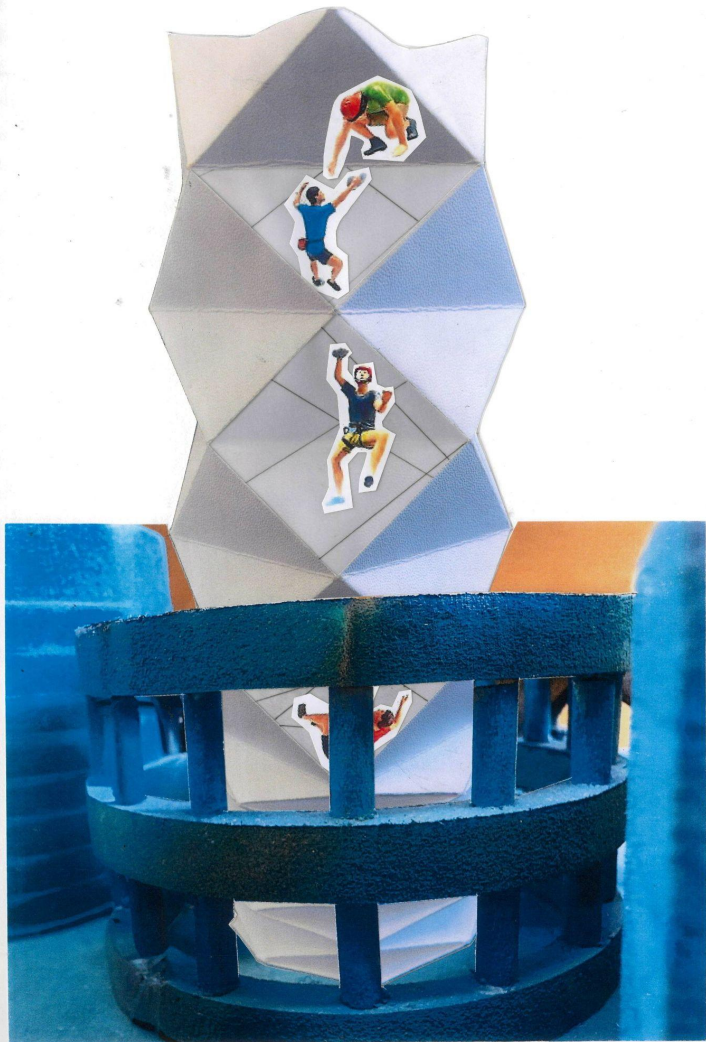
I explored working with sticks, a material I used in the Espazo Atelier workshop. I wanted to move away from using paper/as at the moment. It was the main structure for my Model.

The process consists of 20cm sticks + elastic bands, wrapping one stick on top of another and trapping them with a band. It revealed one of the weaving sample.

The problem I faced was the sticks weren't all at the same level, so the solution was to adjust the rubber bands to be spread equally from one another.

My friend and I will incorporate this technique into my design, allowing the user to climb onto the structure.





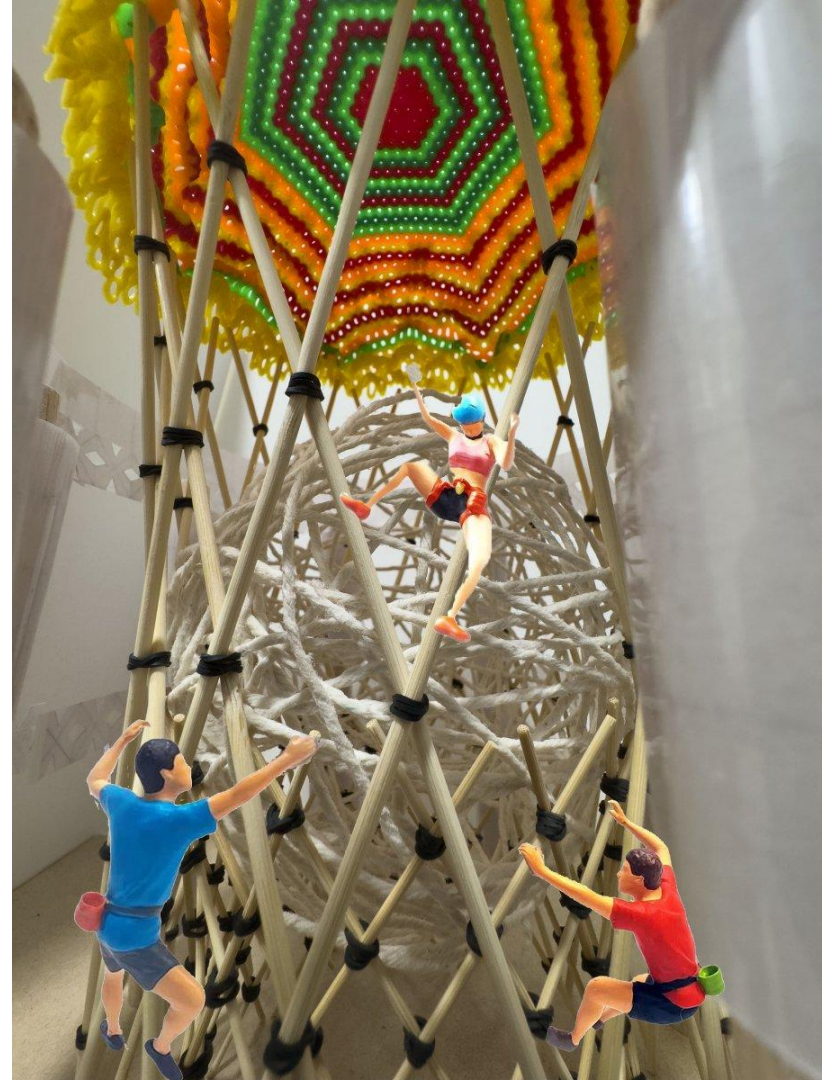
The function for my design is a climbable structure in the center of Gasholder Park as there wasn't any playgrounds for Young Adults.

The reason for this is because our exposure to technology and social media, has led people nowadays to spend most of their time indoors, not taking the time to enjoy the natural world.

Final Proposal

The function of my Structure Is to encourage young adults to go outside and experience childlike memories of play.

Most Young Adult are shifting to getting older dealing with responsibilities, due to a lack of facility for them to express freedom from the everyday world problem, they mostly uses social media. However, It creates more problem as It limites human Interaction.

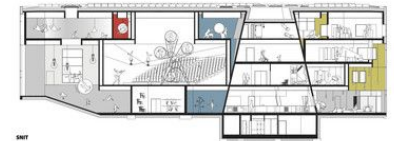
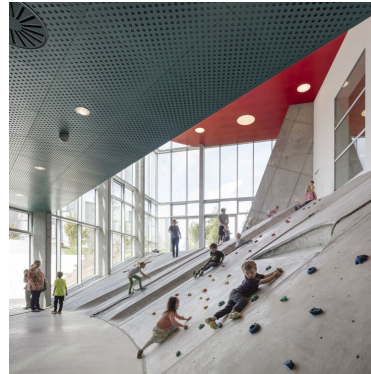


House of Culture and Movement by MVRDV + ADEPT

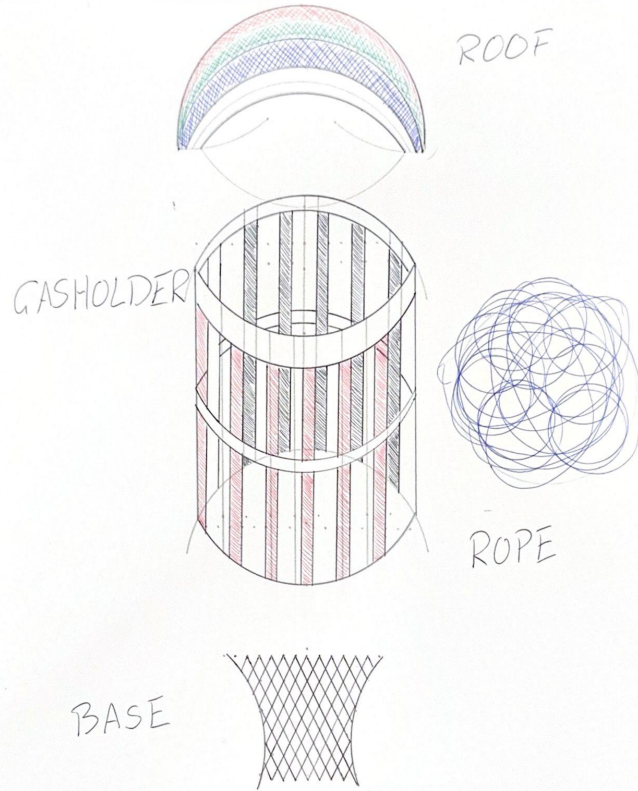
Built In Demark 2016, It Is a vibrant Community Center that encourage the user play and interact with the building. The space Is designed to encourage diverse ages to be active. The benefits of the design Is It unite various social gathering and the space Is flexible for the modern day use. However, This means with interactive structure It requires constant maintenance and new user might get lost as their our multiple sections. This relates to my theme as I want to give the user the freedom of play In a space.



Made out of Concrete with wood, steel, metal mesh and rubber surface. Climbing walls, nets, trampolines.



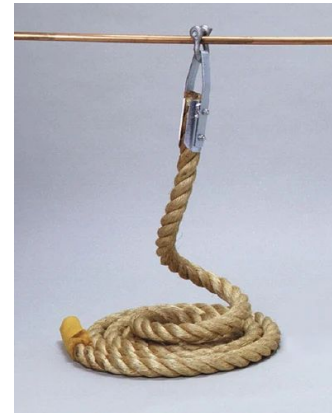
TECHNICAL

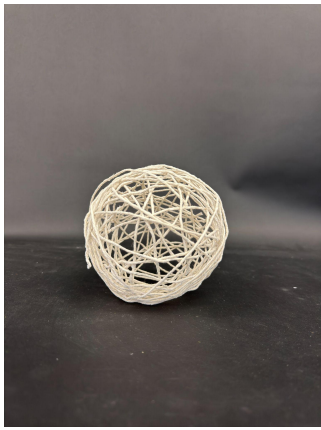
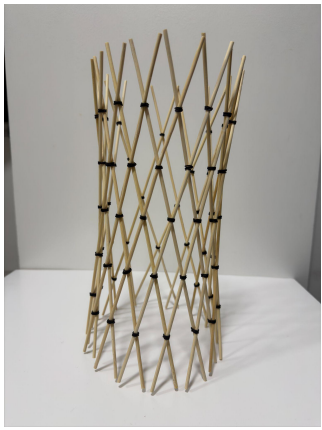


The roof will be made out of Crown caps woven together from recycled bottles, connecting to each of top of the gas holder pillars.

The rope will be made manila rope as It's from natural organic fibers, also a environment friendly material.

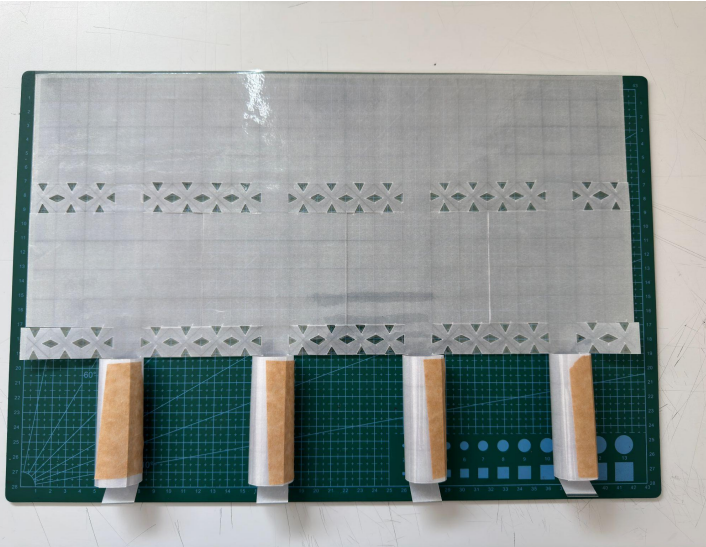
The base of the structure will be made out of bamboo a sustainable material which Is durable and flexible.





Materiality

I will be redeveloping my straws and integrating all my techniques to make something new, Using my sticks to be the foundation of the structure and the string as the base. I will also create a roof cover.



BEADS

I worked with beads, a material that is 0.5 in length and width in size. I aimed to implement colour in the space. Influenced by Yinka Ilori with his usage of colour.

The process was to create a pattern, place it on a flat surface and spray it with cooking spray, so it doesn't stick to the base. Then I place it on a tray in an oven. Let it heat for 20 minutes at 190 degrees Celsius, this will melt the beads together to make a whole structure.

The problem I experienced was that I filled the beads to the top of the bowl, while melting and they slid down the bowl. To salvage it, I would cut a chunk of the edge to have a stable base.

