

PROJECT 02

# DESIGN PRINCIPLES

**GROUP 02**  
**SECTION 03**

-  
**CONTINUUM**

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CHUA VIN SEE / 0359717 / FID

MOO RENEE / 0359595 / FID

WONG WEI WEI / 0357204 / FID

/

INTRODUCTION TO SPATIAL DESIGN

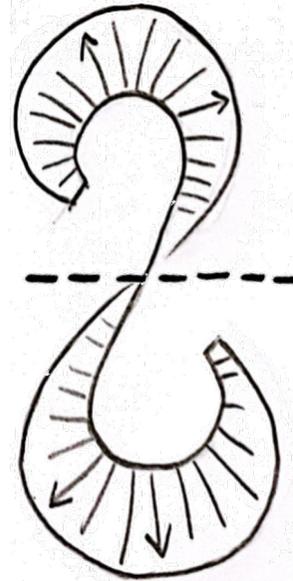
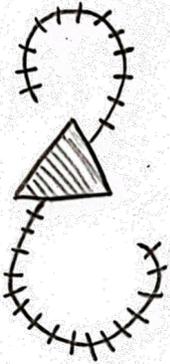
DST 30705

**EMPHASIS**



The model was inspired by wooden S-shaped conversation chairs.

By breaking the rhythm of the vertical lines with an inverted pyramid in the center, emphasis is implied on the pyramid.



The satay sticks slowly expand from the bottom to the top, and the length gradually increases following the curve.

They are arranged in a "blooming" fashion.

Both sides of curve are symmetrical to each other. When rotating the model, a flowing rhythm can be seen.



**FRONT**



**BACK**



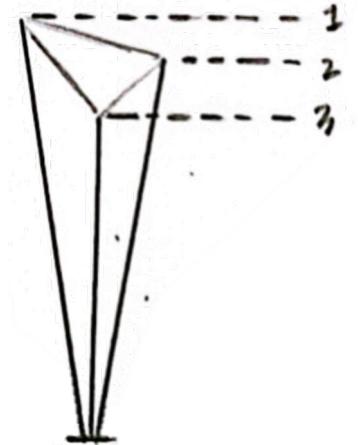
**RIGHT**



**LEFT**



**TOP**

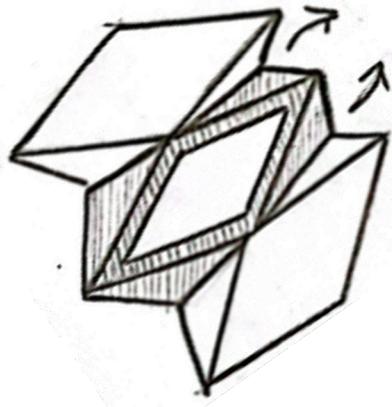
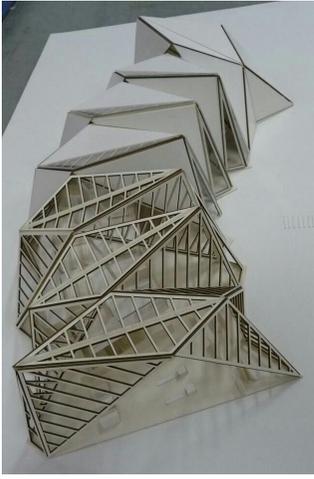


The frame of the inverted pyramid is made up of 3 sticks with different lengths.

1 being the highest point of the whole model.

This prevents the pyramid from looking flat.

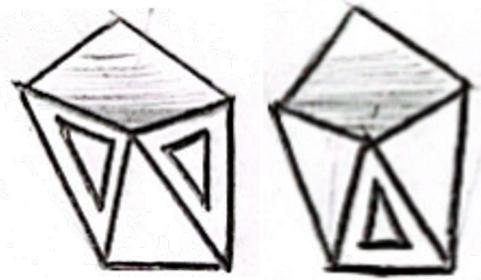
# EMPHASIS



The second model's design was inspired this image found on Pinterest.

Planes on every side of the 3 quadrilaterals connects them together, forming a rhythm.

Emphasis on the middle part is shown by the different color used and the void created in the center.



The front-facing smaller planes made the model look neater and sturdier, blocking the view of the back.

They are also in contrast with the "form" of the quadrilateral they are connected to. For example, the middle piece exhibits a plane that is entirely covering the front despite having openings on other surfaces.



FRONT

BACK

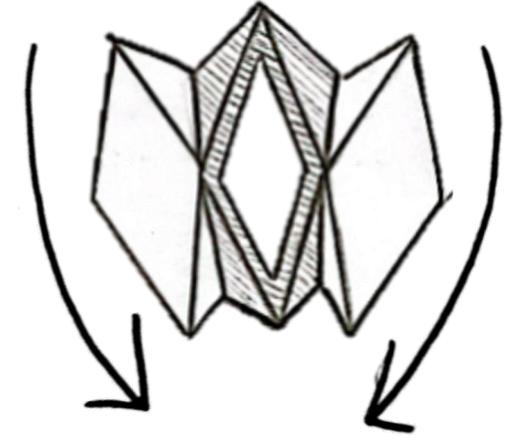


RIGHT

LEFT

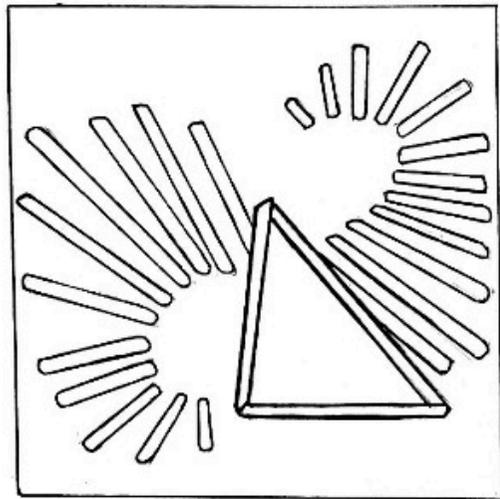


TOP

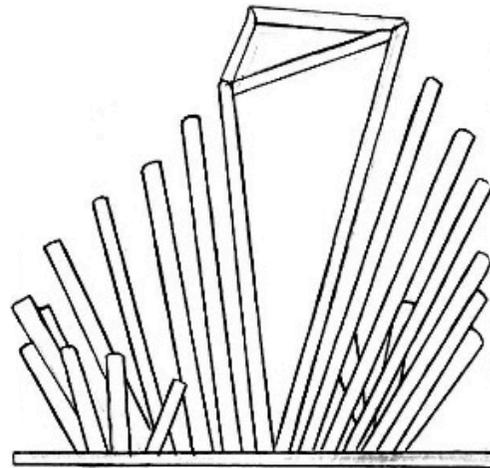


The model is made up of 3 quadrilaterals with triangles at the side, providing height to it.

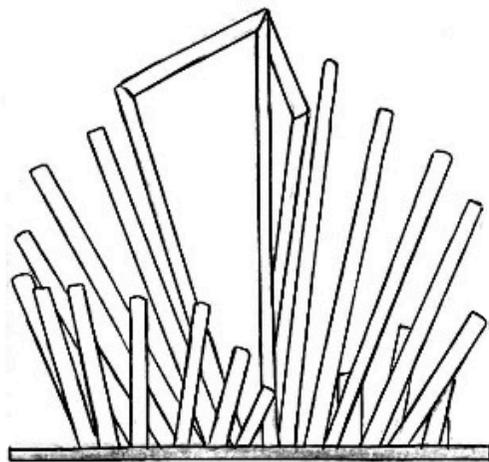
From the top view, the quadrilaterals are arranged in a subtle curve, with the front points curving in.



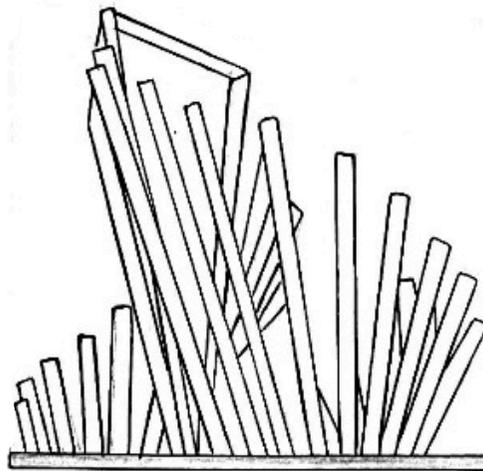
TOP VIEW



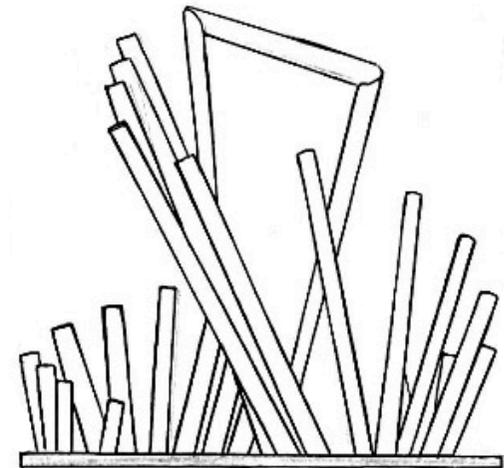
FRONT VIEW



BACK VIEW



RIGHT VIEW

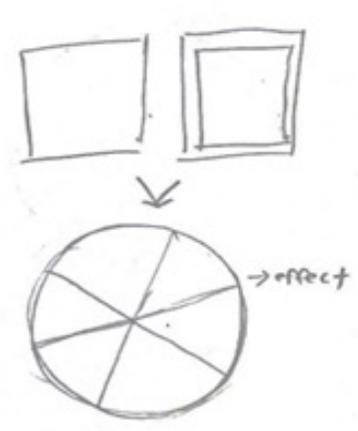


LEFT VIEW

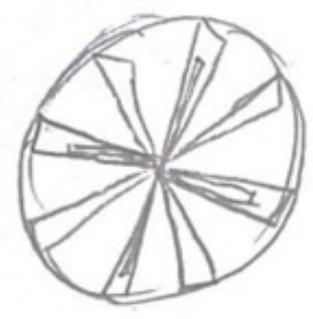
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GROUP 02 / SECTION 03

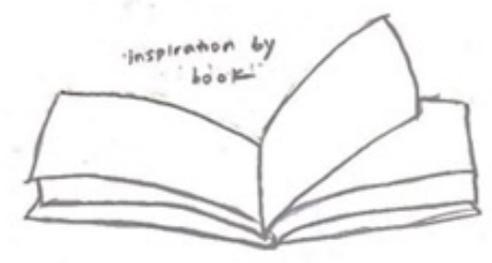
# CONTRAST



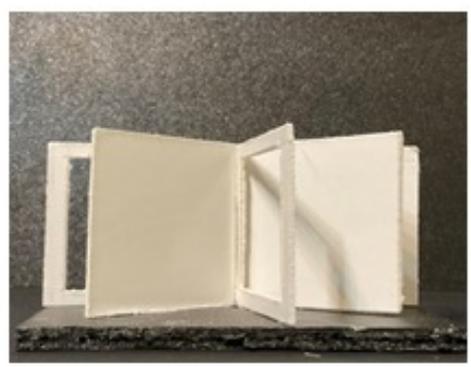
CREATING CONTRAST IN A CIRCLE FRAME



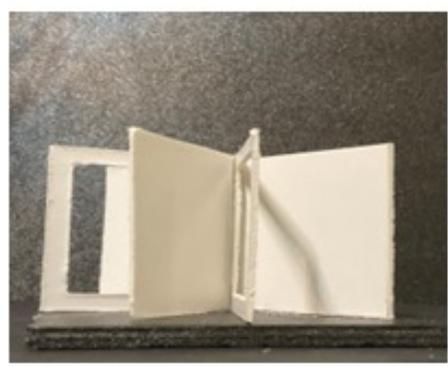
INSPIRATION BY BOOK



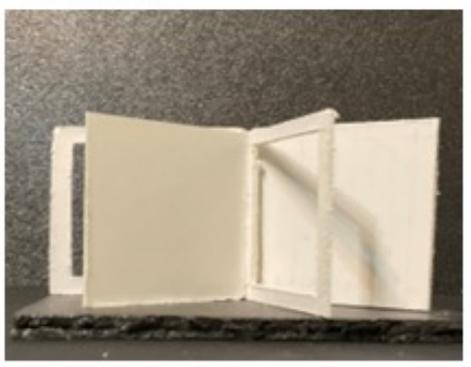
The design model draws inspiration from the act of flipping book pages and incorporates contrast through layered elements. It consists of a layer with a hole, and a filled hole. Surrounding it in a circle enhances the movement sensation. In general, this design model combines the inspiration of flipping book pages with a contrast-based approach



FRONT



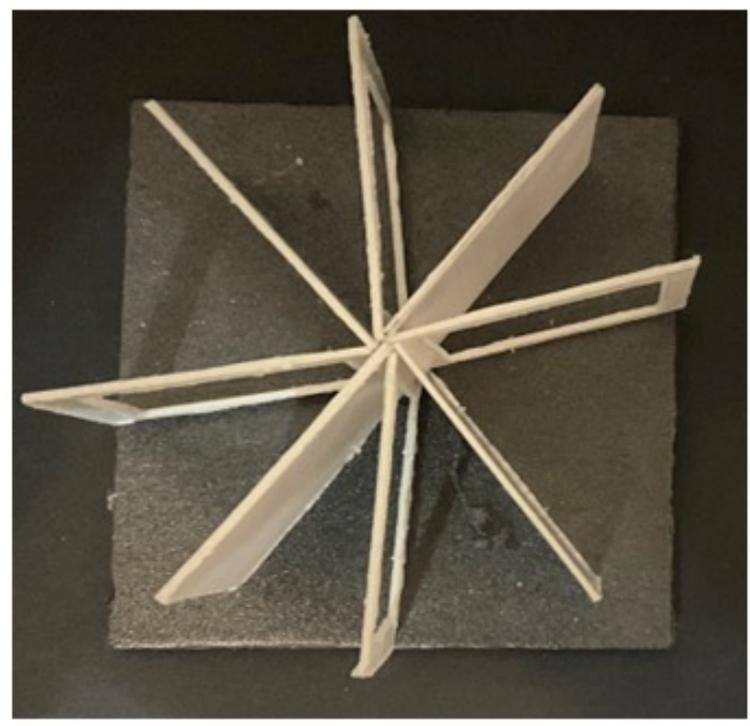
BACK



RIGHT

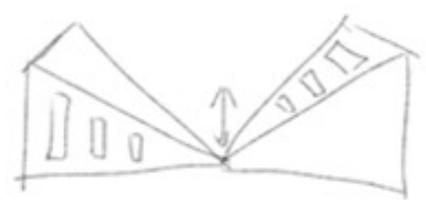


LEFT



TOP

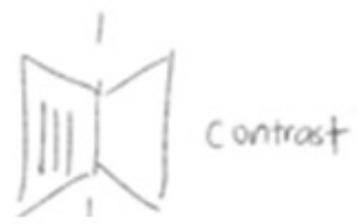
CONTRAST



ORIGINALLY CONSIDERED CREATING MODEL WITH TRAIINGULAR FORM



CHANGED INTO TRAPEZIUM IN ORDER TO ENHANCE ELEVATION

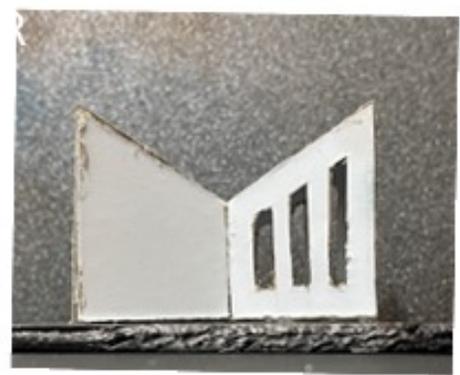


THE DRAFT OF TEMPLATES AND PATTERN

The model design creates a striking contrast in shapes through the use of consecutive lines. The trapezium shapes, one with a vertical striped pattern cut and the other without, along with the triangles, exhibit distinct forms.



FRONT



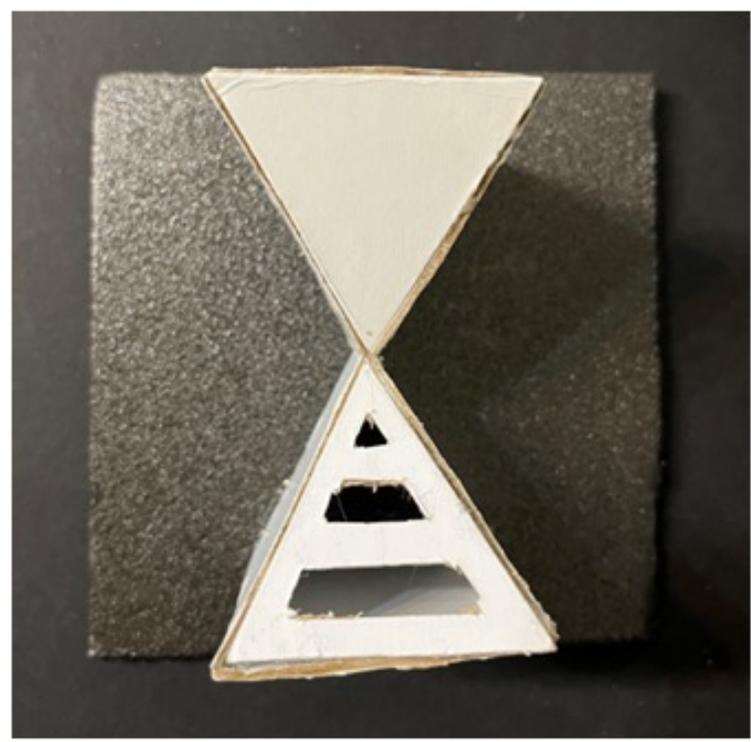
BACK



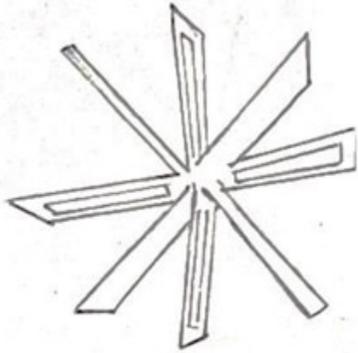
RIGHT



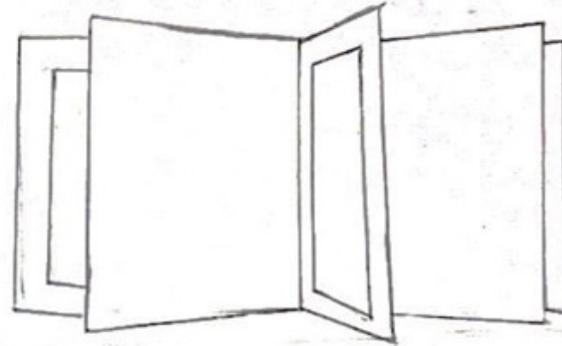
LEFT



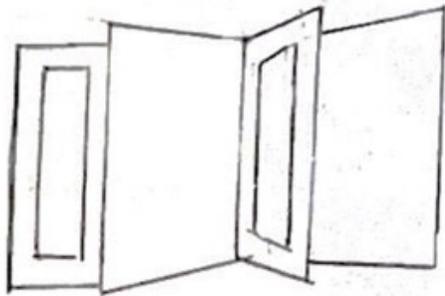
TOP



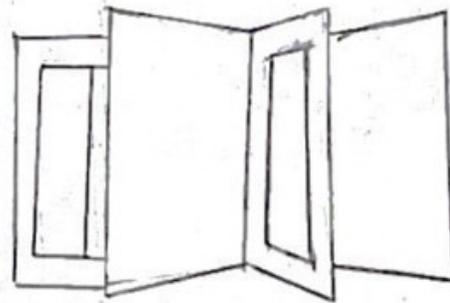
Top view



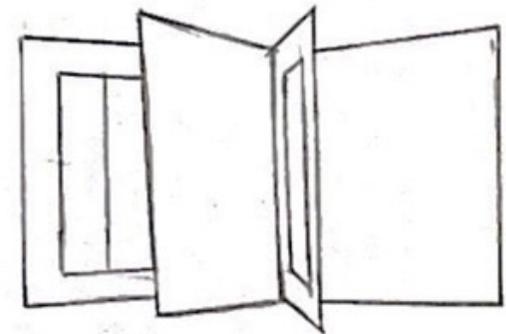
Front view



Left view

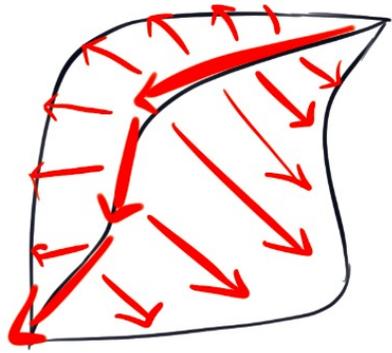


Right view

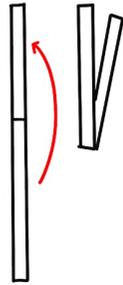


Back view

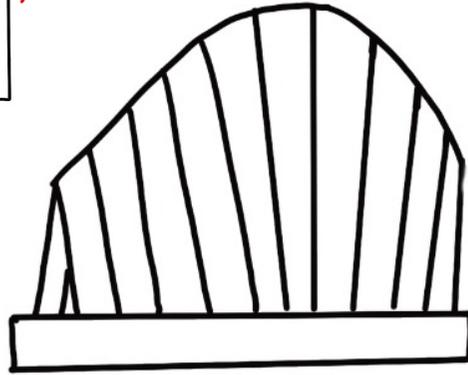
# MOVEMENT



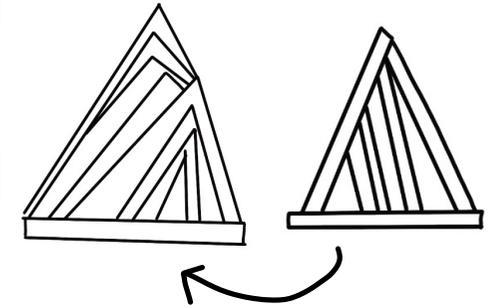
The model is inspired by the shape and the fluidity of sand dunes.



This is the basic ideation I wanted my model to look like with thinly cut strips of modelling board.



The inspiration for curve in this model is found by tunnel when they create curve to the direction



By adding a curve at the "spine" of the model, it creates more movement and fluidity to the model.

The model also does not look so rigid compared to before.



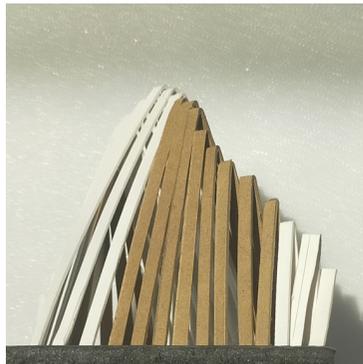
FRONT



BACK



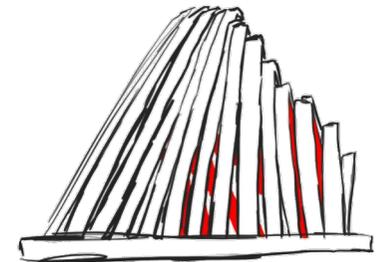
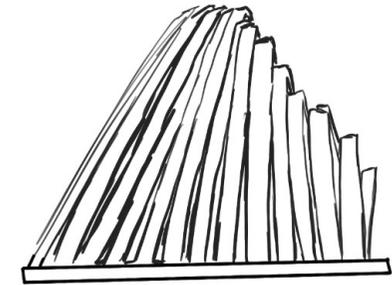
RIGHT



LEFT



TOP



An overlapping effect can be seen through the gaps between the strips, adding depth to the overall model.

# MOVEMENT



For this model of movement are inspired by shark eye shell with a movement of turning and spinning

Image of what the inside of the shell look like and how it is arranged



FRONT

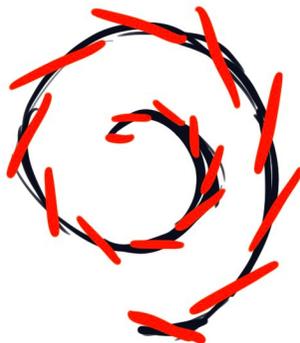
BACK



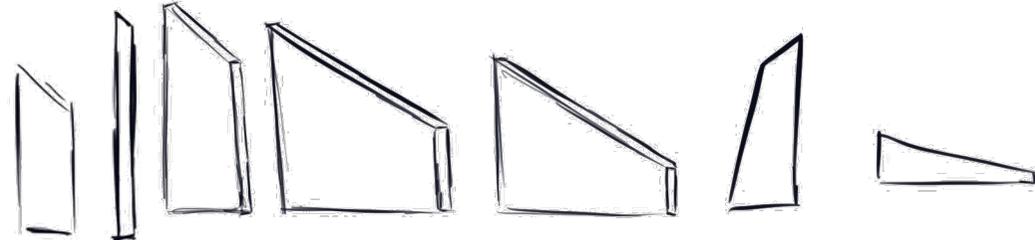
LEFT



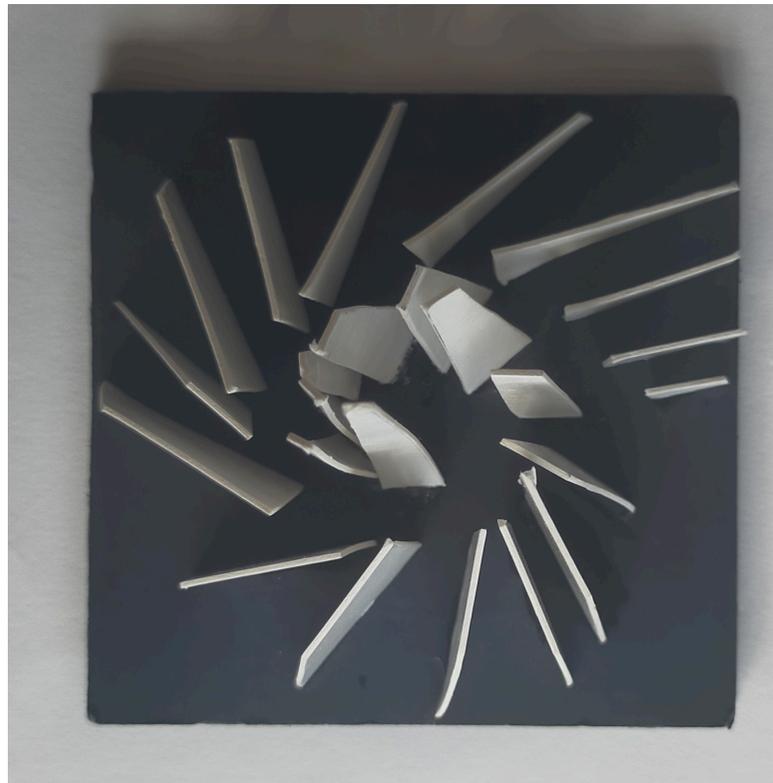
RIGHT



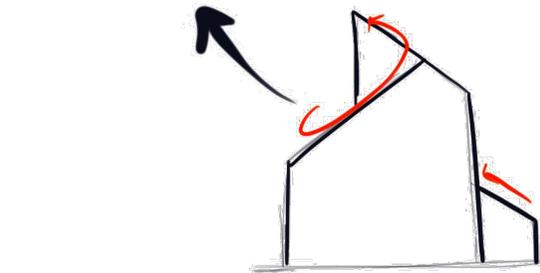
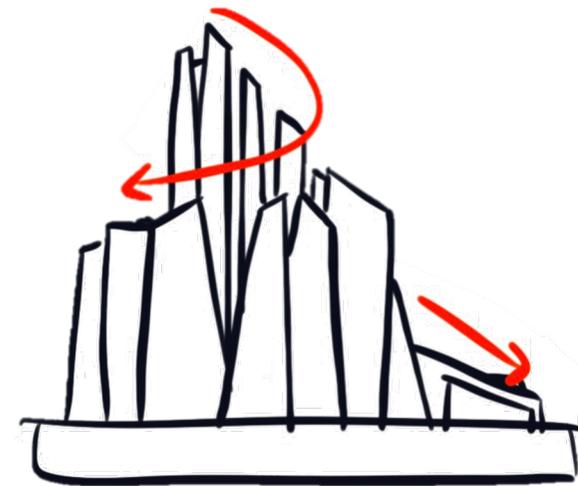
I wanted to show movement using panels of modelling board arranged in a spiral shape.



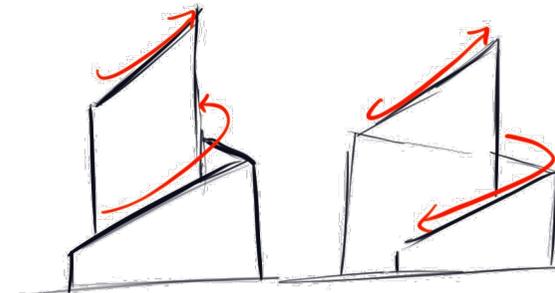
To show contrast in height, different width and height of modelling board are cut and used.

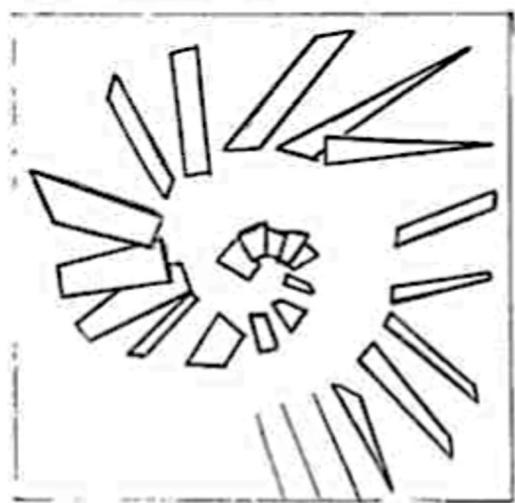


TOP



The boards are arranged in a manner where the lowest point progressively increases as they spiral towards the center, looking like a spiral staircase.

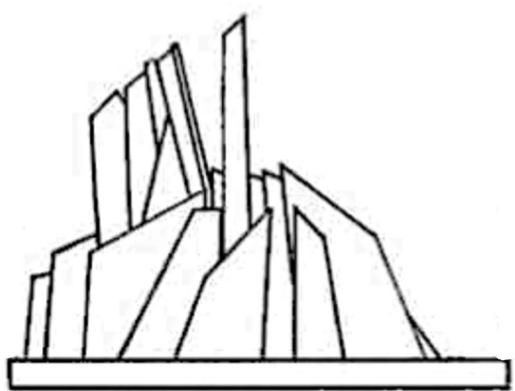




TOP VIEW



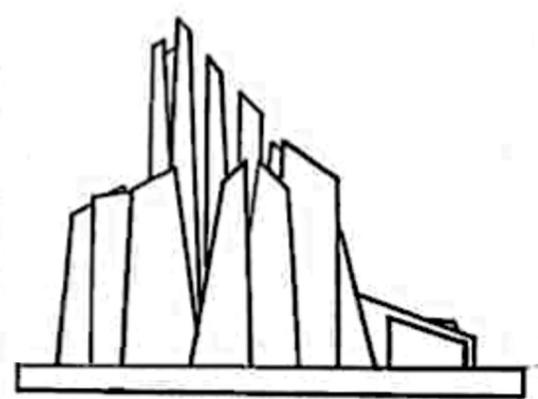
FRONT VIEW



BACK VIEW



RIGHT VIEW



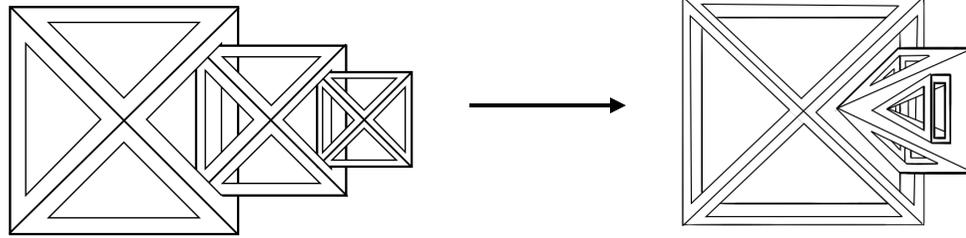
LEFT VIEW

M&S RENEE T03595957 FID

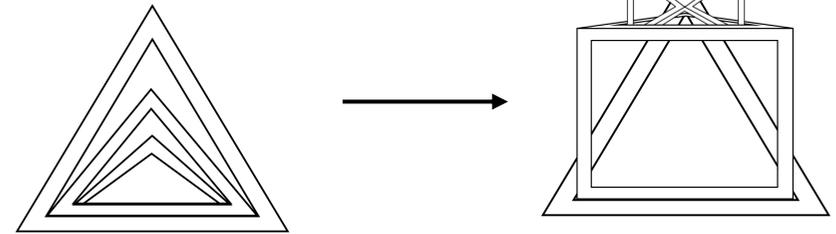
GROUP 02 / SECTION 03

**VARIETY**

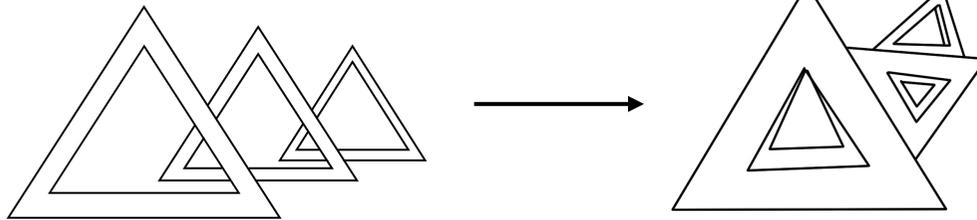
Top View



Right Side View



Front View

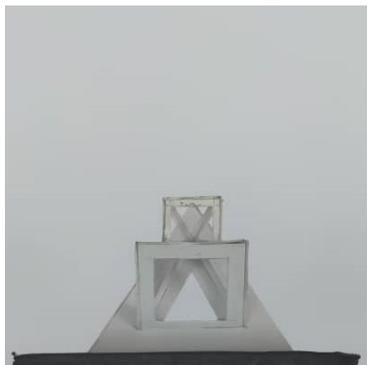


I use three distinct pyramid sizes to demonstrate the variety. This model follows a progression from large on the left to small on the right that you can see in the sketch. The front view of this model showcases a distinctive outline that ensures it remains engaging and avoids any sense of monotony.



**FRONT**

**BACK**



**RIGHT**

**LEFT**

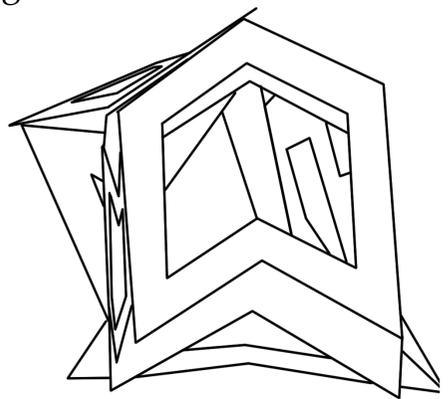


**TOP**

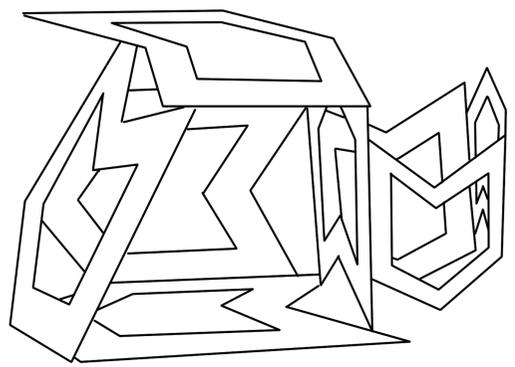
Moreover, I have enhanced the model by seamlessly connecting these pyramids. The left side of the pyramid is linked with the right pyramid, creating the impression of a rolled pyramid.

VARIETY

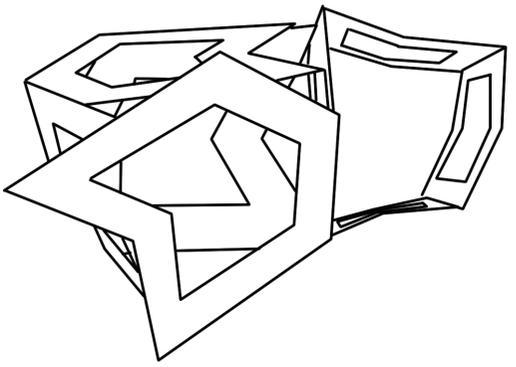
Right Side View



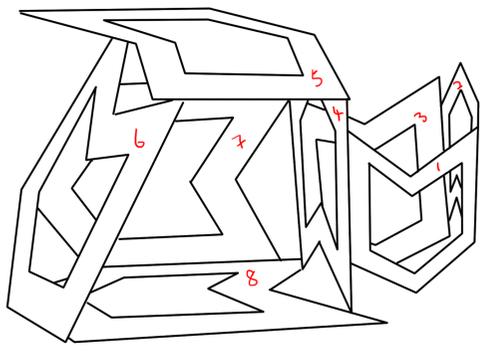
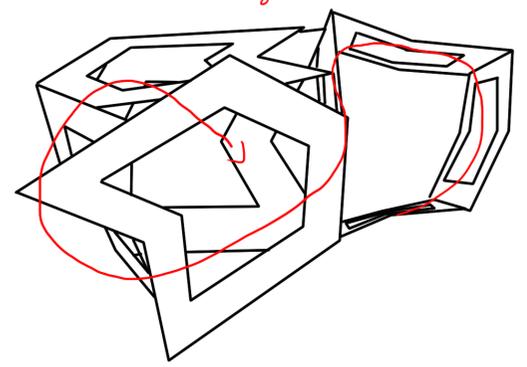
Front View



Top View



*small to big*



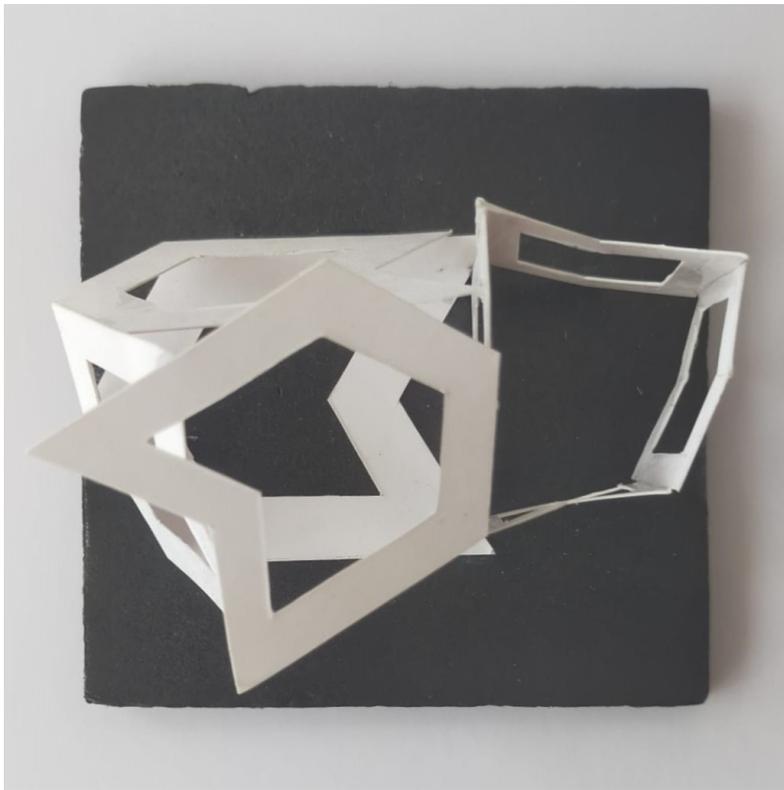
FRONT

BACK



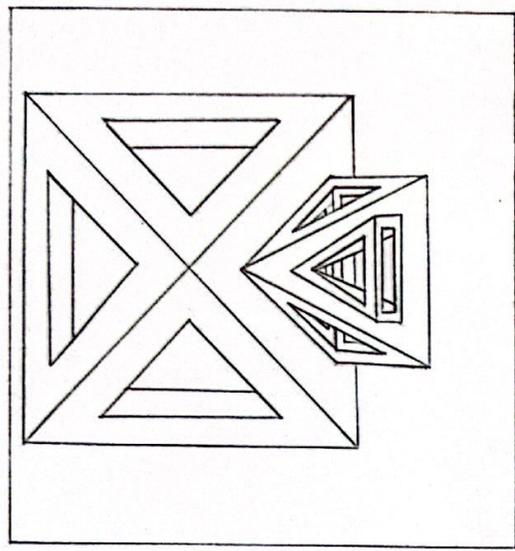
RIGHT

LEFT

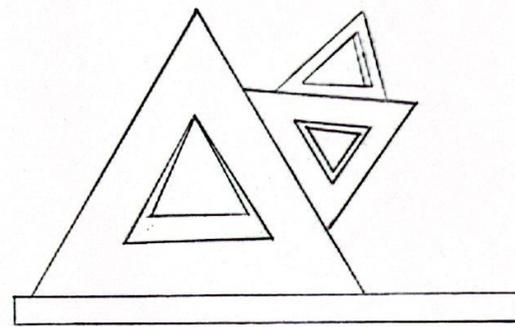


TOP

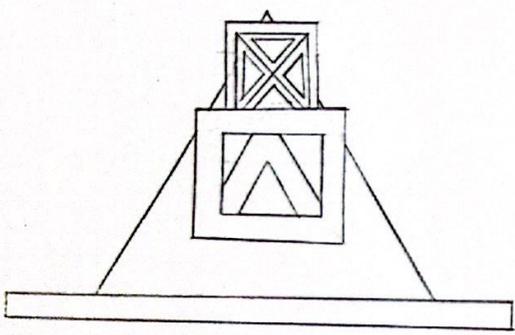
This model was constructed using geometric shapes of different sizes. As you can see on the sketch, that I connected these shapes in a curving S-shaped manner. The smallest shape is on the right side of the model, while the largest the shape is located on the bottom left side, firmly attached to the base.



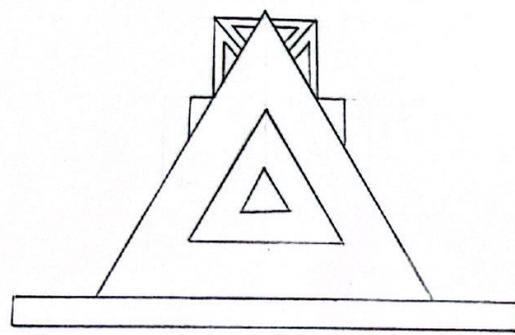
TOP VIEW



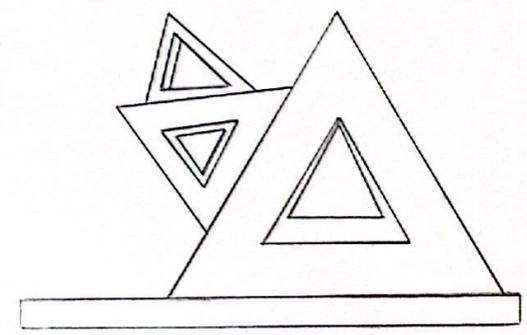
FRONT VIEW



RIGHT VIEW

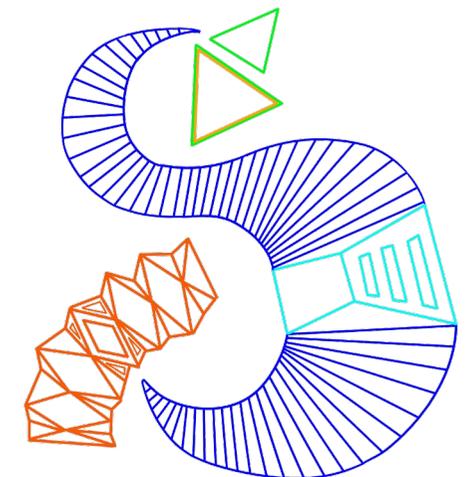
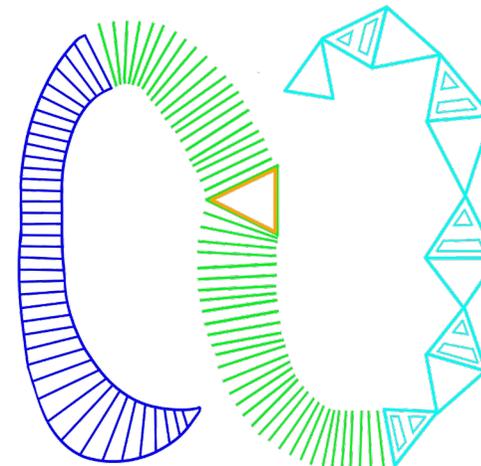
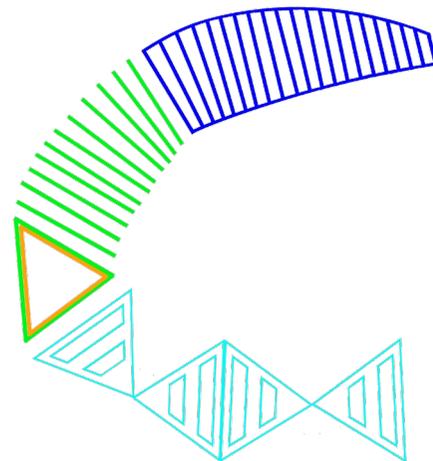
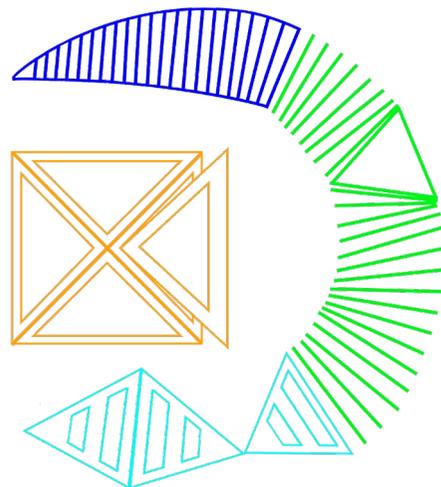
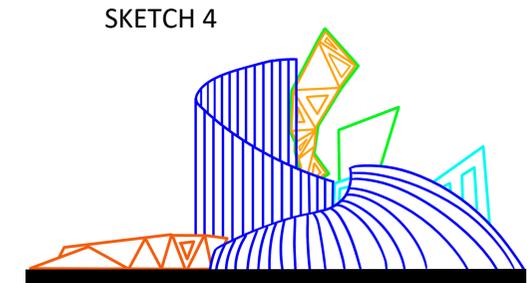
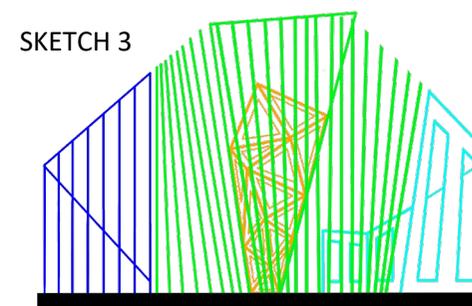
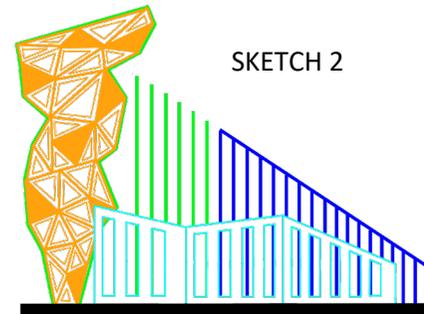
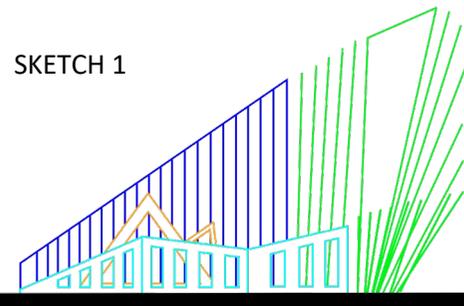
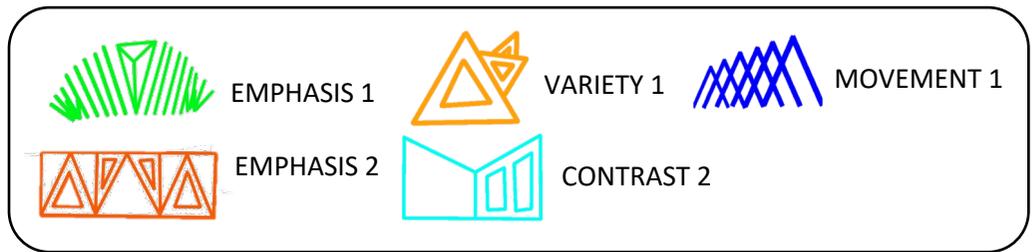


LEFTVIEW



BACK VIEW

Our fundamental ideation revolves around using **movement** as the main design principle for the overall model, while incorporating additional supporting principles to achieve a comprehensive and cohesive design.



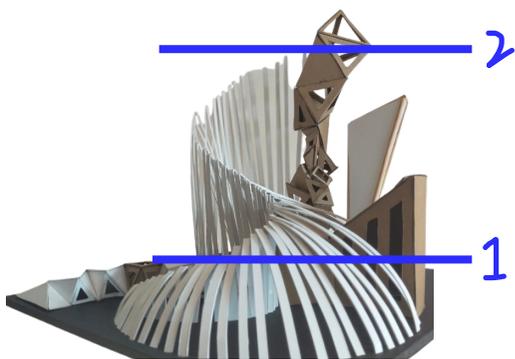
The initial sketch involves interconnecting **Movement Model 1**, **Emphasis Model 1**, and **Contrast Model 2** to shape a curved structure. The primary emphasis is on **Variety Model 1**, positioned at the centre of the inner side of the curve.

We then further refined the initial concept by integrating **Variety Model 1** into **Emphasis Model 1**, replacing the inverted pyramid with a structure composed of diverse sizes of triangles.

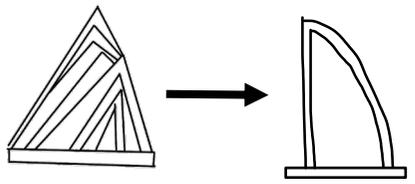
An alternative derived from the second sketch is that we replaced the C-curve with an S-curve, placing emphasis on the **Variety Model** from Sketch 2 in the centre.

For the final sketch, we added **Emphasis Model 2** and focused on enhancing the curvature to establish a seamless visual path that begins at **Emphasis Model 2** and leads viewers gradually towards the **Variety Model**, introducing elements along the curve.

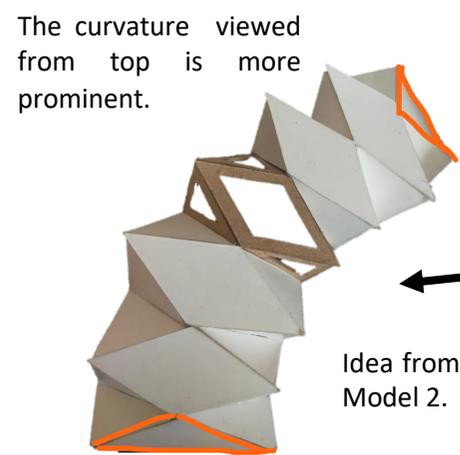
# HYBRID - ANALYSIS



Using movement, the curve increases progressively from point 1 to point 2, leading the viewer's eyes from the lowest to highest point of the model.



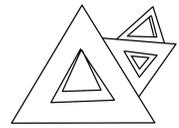
Idea from Movement Model 1.  
Slight change in shapes from a triangle to a half arch.



The curvature viewed from top is more prominent.

Idea from Emphasis Model 2.

To achieve a more gradual elevation towards the center, two additional triangles were added on each side.



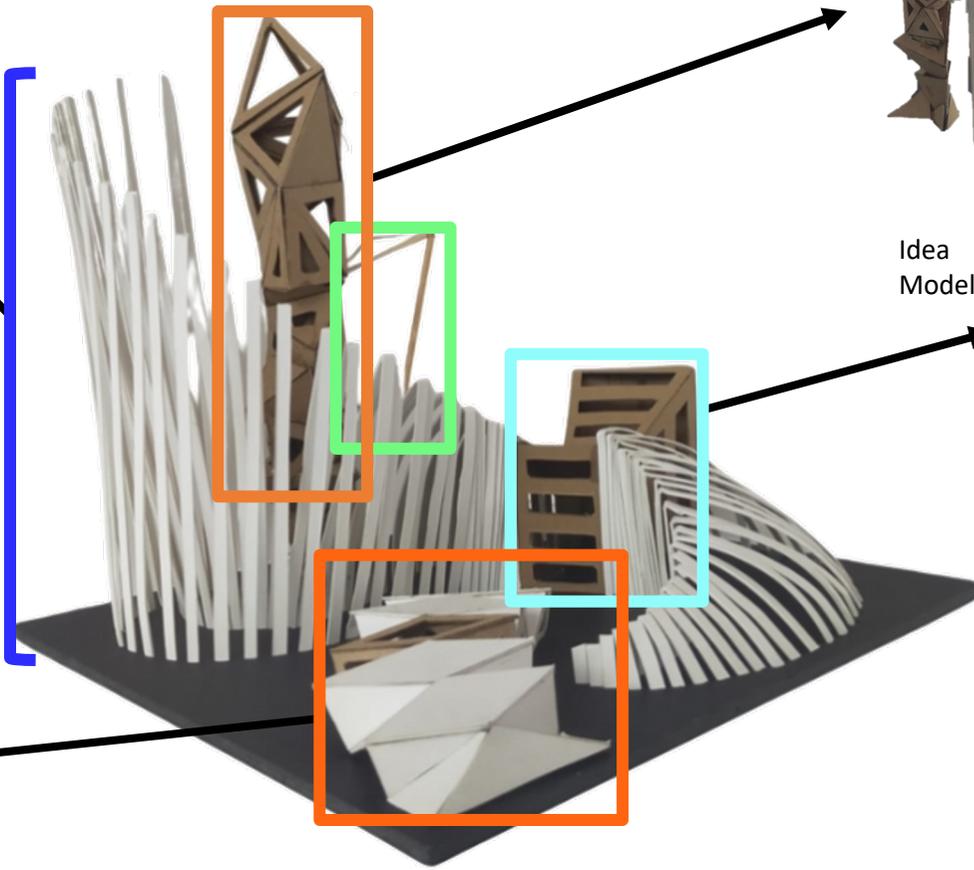
Disassemble the pyramids and use them to construct a bigger and taller form.

Various sizes of smaller pyramids are used.



Incorporated idea from Variety Model 1 into Emphasis Model 1.

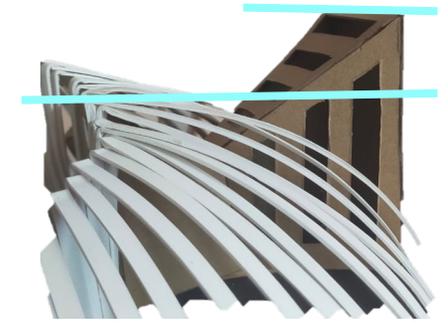
Added one more smaller inverted pyramid to show emphasis on the taller one.



Idea from Contrast Model 2.



A slight change in form, the outer surface transitions from a flat plane to a curved surface, seamlessly integrating into the primary curve of the hybrid model.



Height of the model was also altered, with the outer side being slightly taller than the inner side.

With movement as the central focus of the hybrid model, it effectively directs viewers' attention towards each complementary principle, ranging from emphasis at the lowest point to variety at the highest point. Additionally, the variation in colors serves to highlight the significant elements within the entire model.

HYBRID - PICTURES



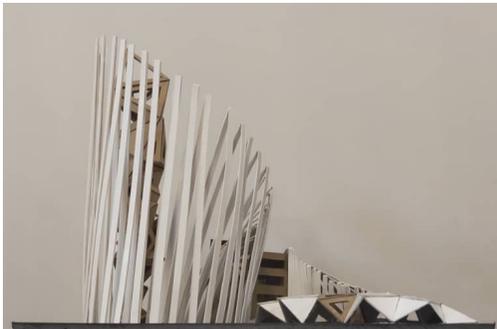
FRONT



RIGHT



BACK



LEFT



TOP



PERSPECTIVES

