

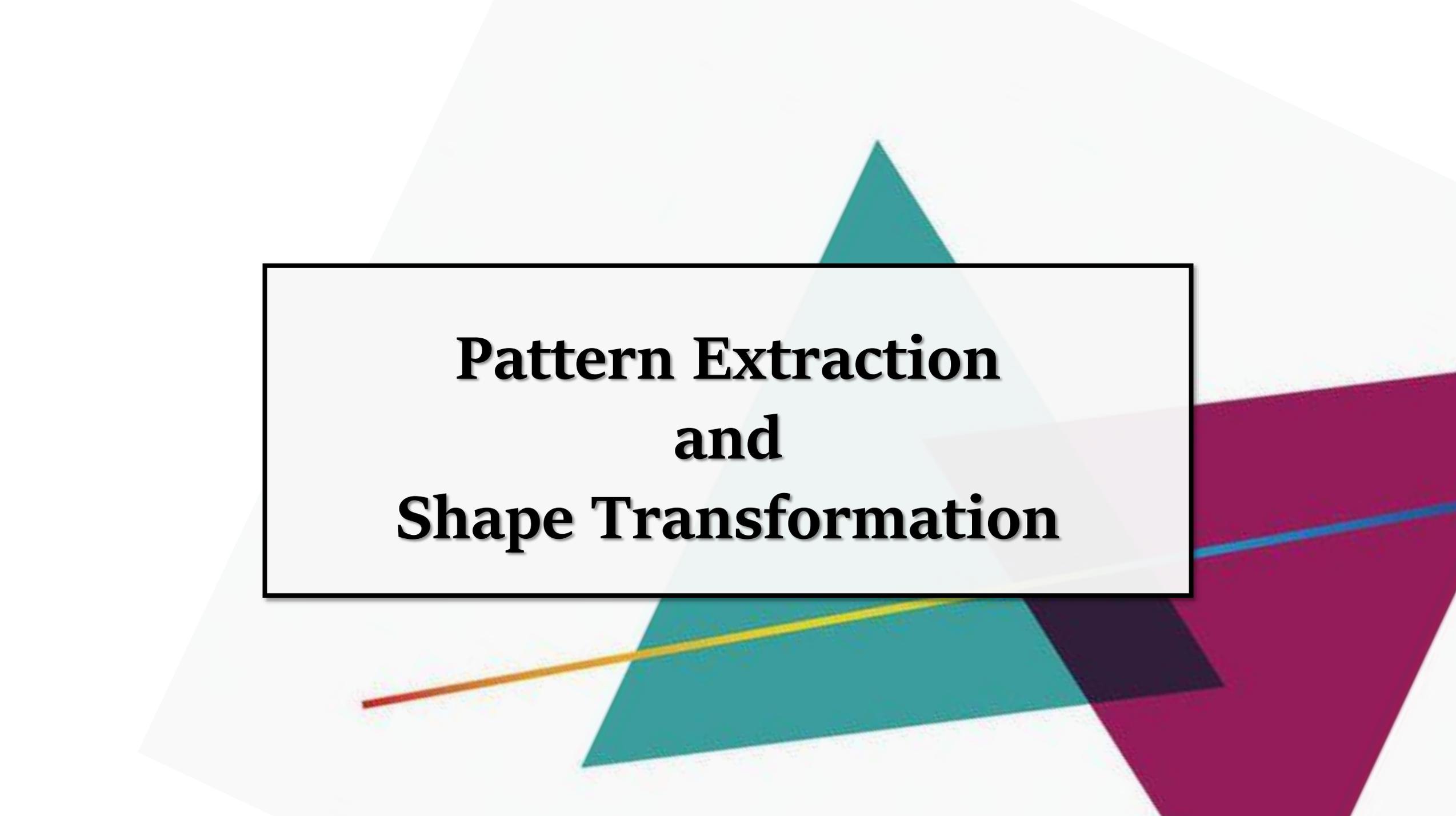
PROJECT 2

Design Principles

Tan Yi Yun (0345559)

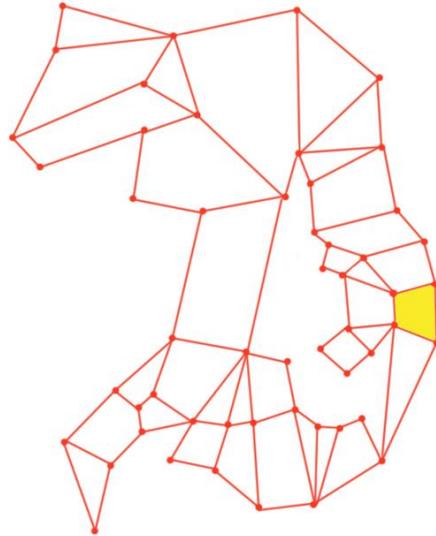
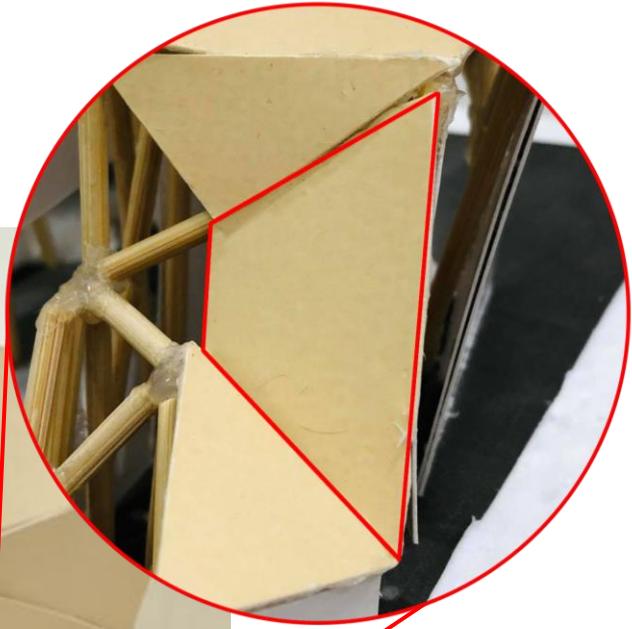
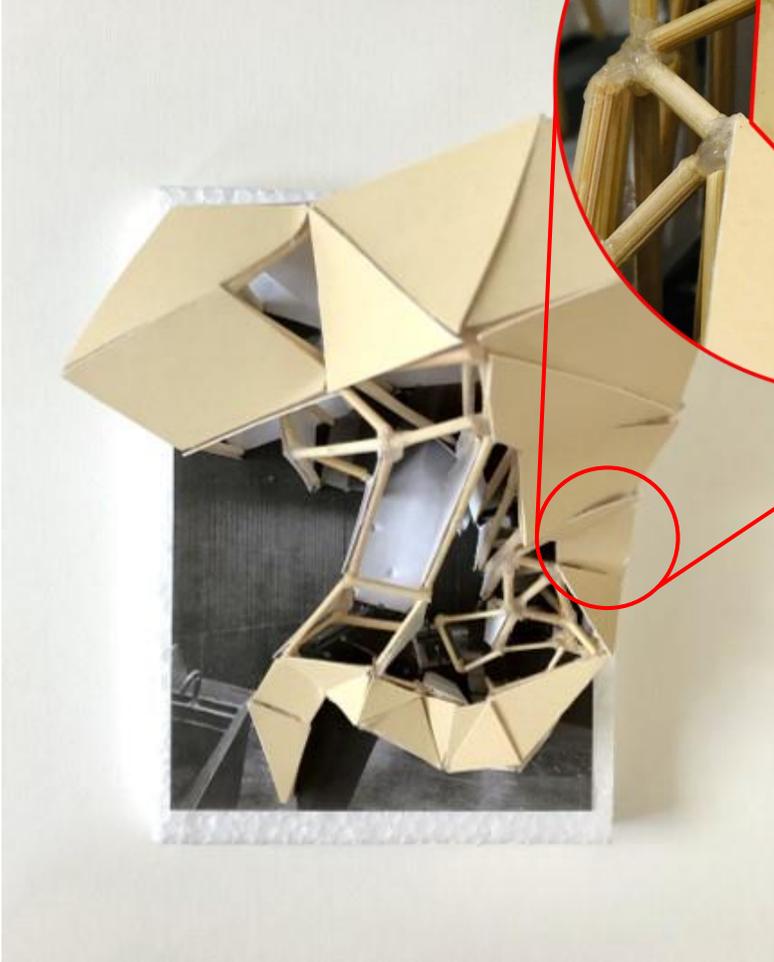
Foundation in Design



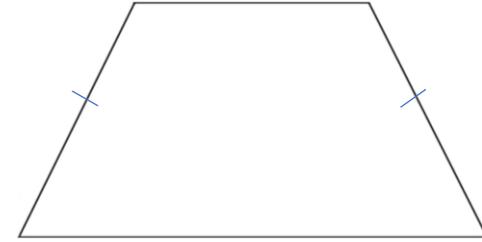


Pattern Extraction and Shape Transformation

Pattern from Project 1



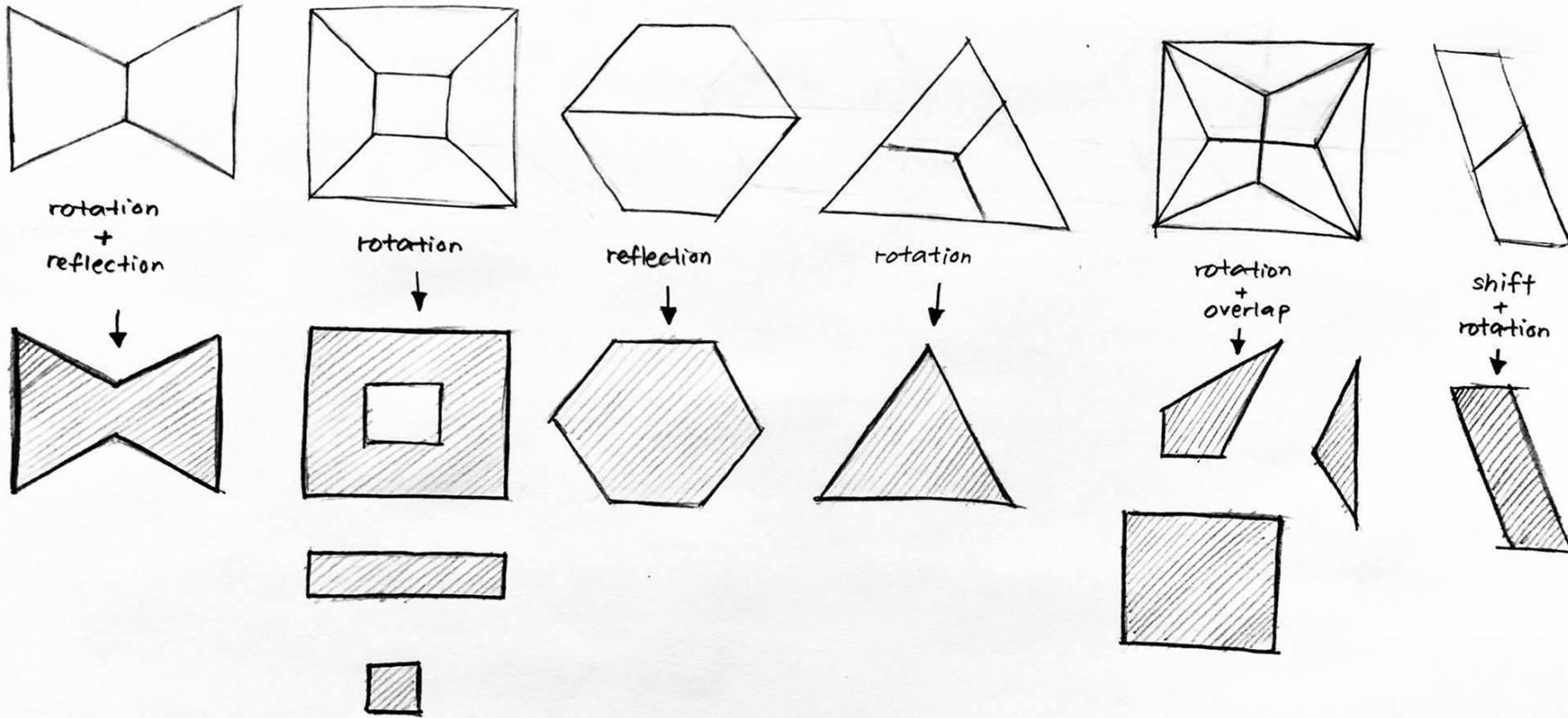
Pattern Extraction



A trapezium is being extracted from the project 1. It is a isosceles trapezium with equal length of two non-parallel sides.

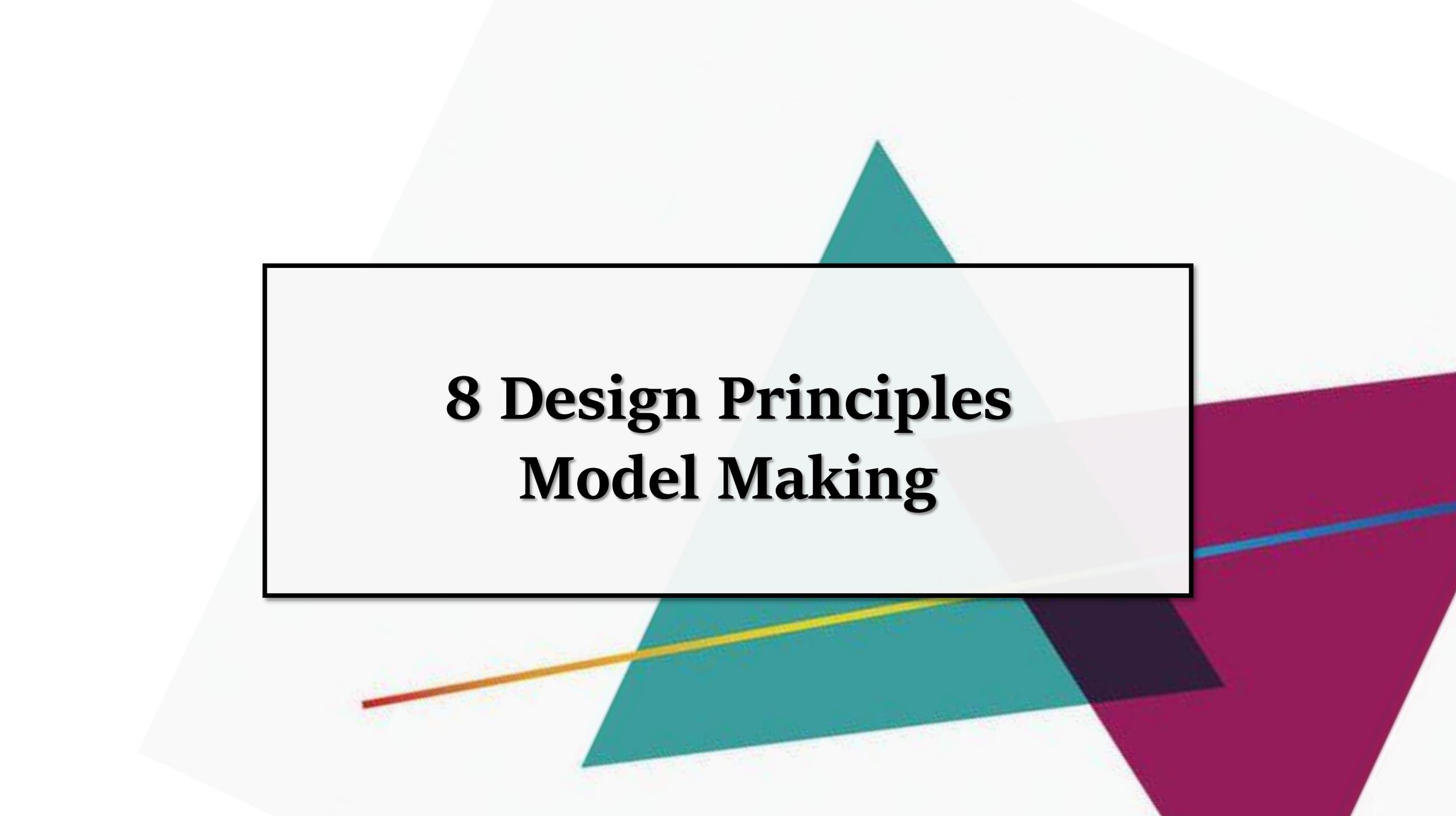


Shape Transformation



The transformation techniques applied include rotation, reflection, scale, overlap and shift.

Various new shapes are formed from the original shape, trapezium.

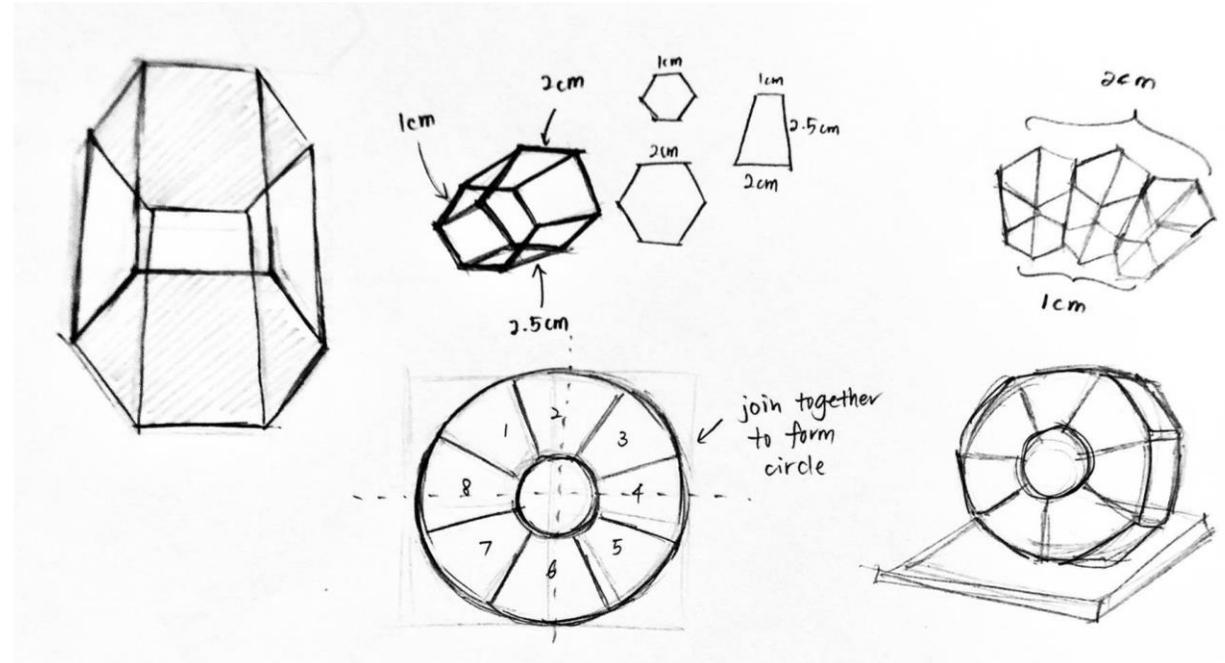
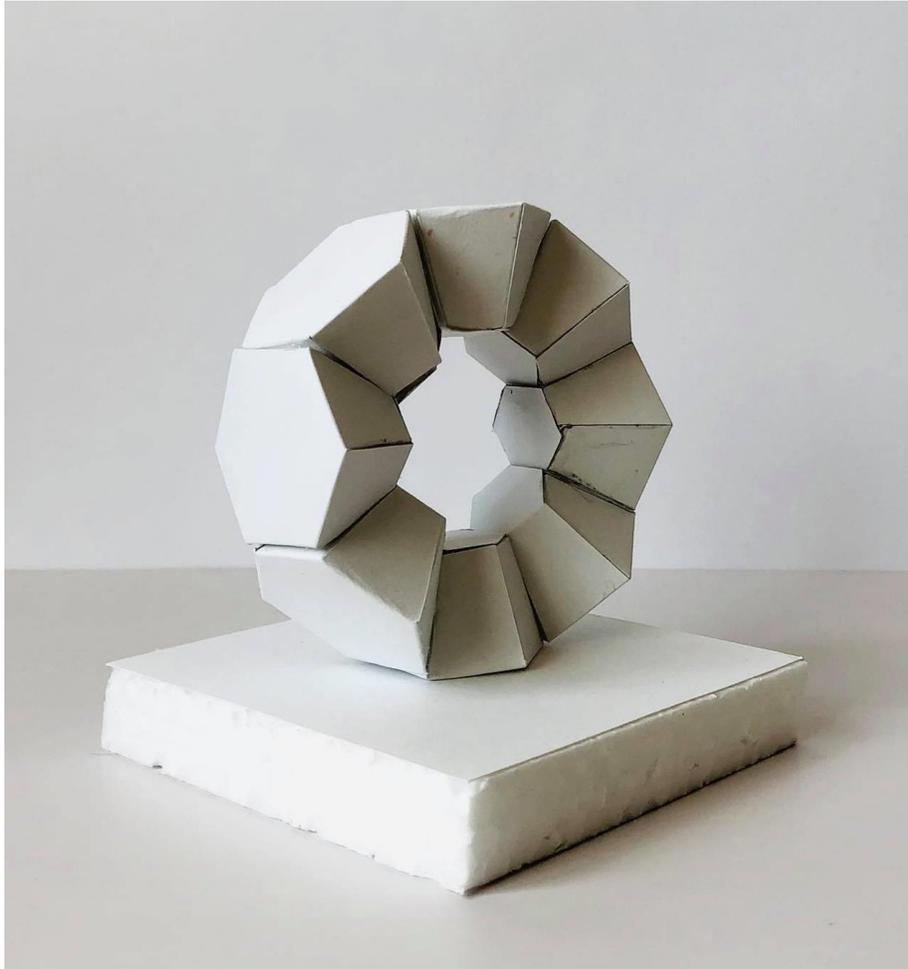


8 Design Principles Model Making

Design Principle #1

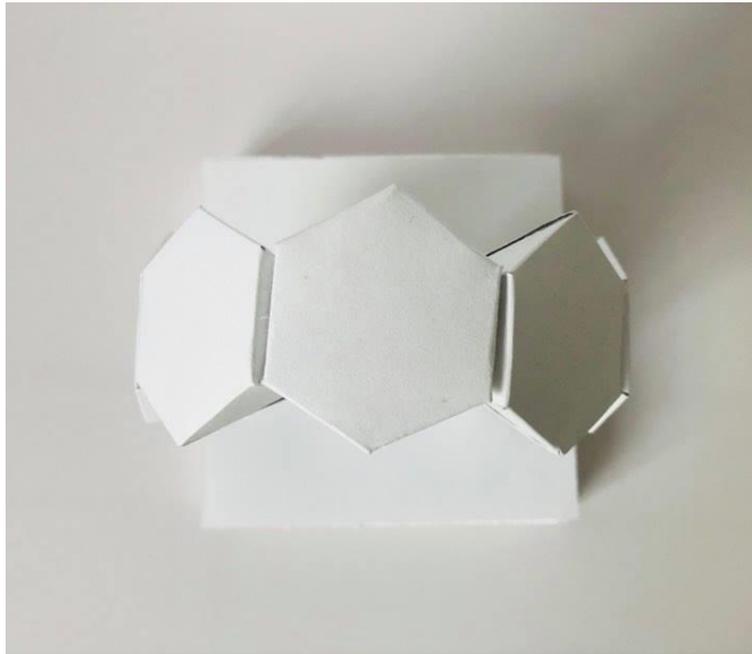
BALANCE

PERSPECTIVE VIEW



This is a symmetrical balance model, with equal weight on each side of the centre line. The concept is to join 8 hexagonal prisms with smaller planes facing inwards, forming a symmetrical ring.

TOP VIEW



FRONT VIEW



REAR VIEW



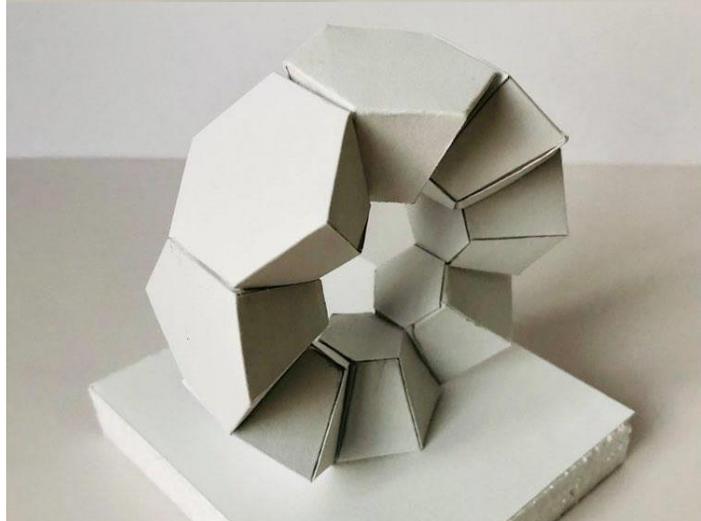
LEFT VIEW



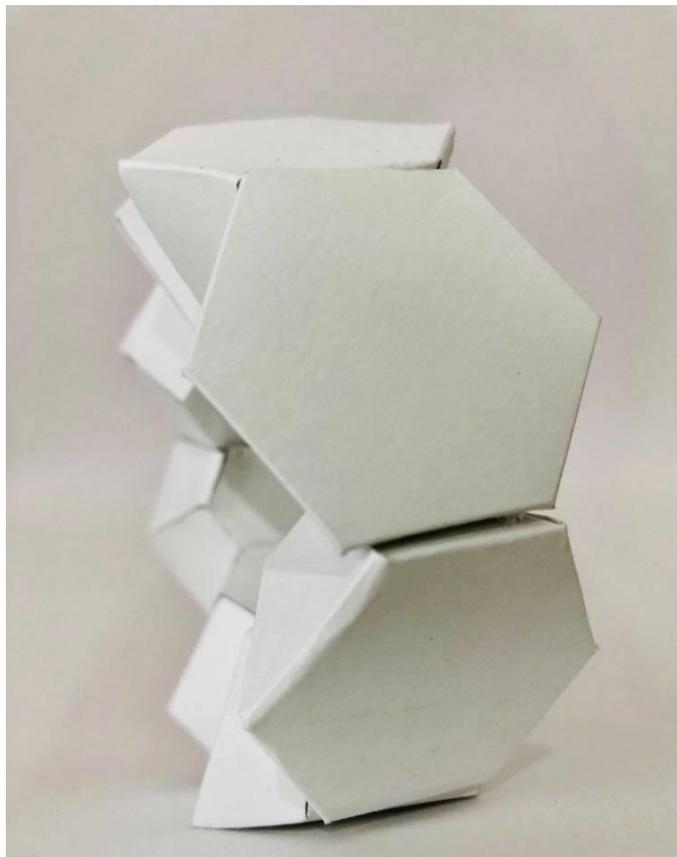
RIGHT VIEW



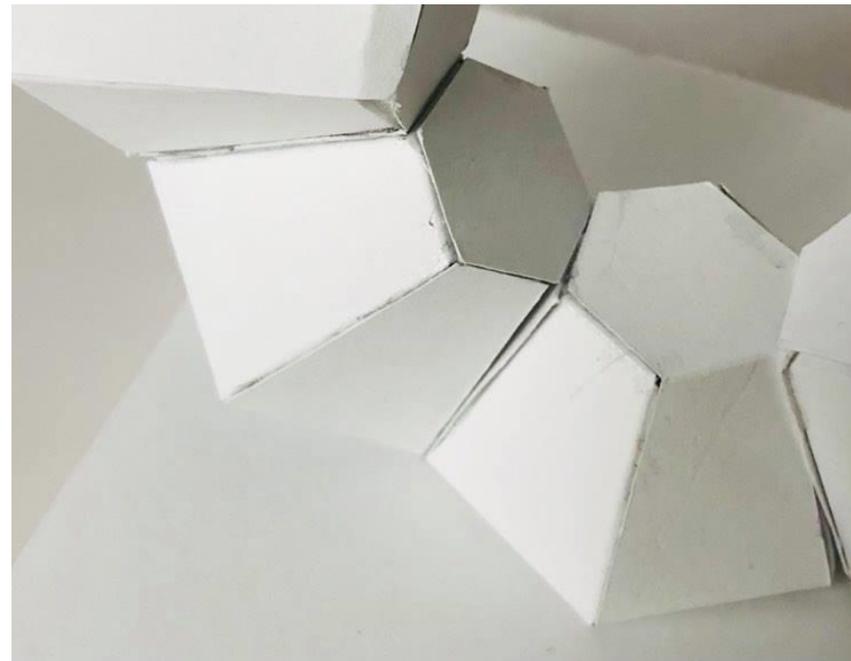
PERSPECTIVE VIEW



CLOSE-UP



CLOSE-UP



TOP VIEW & PERSPECTIVE VIEW



1st Attempt

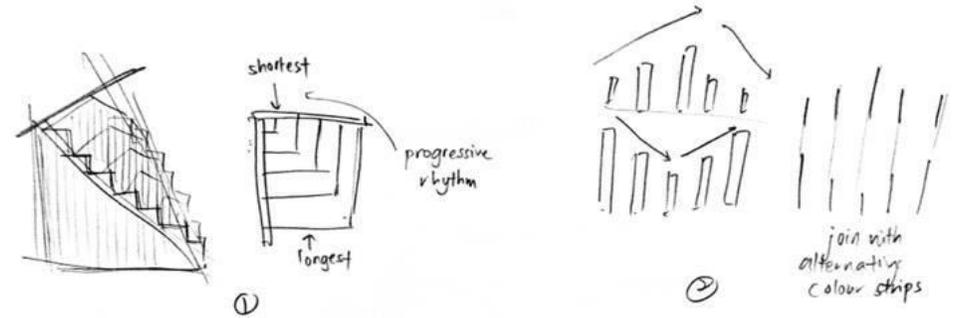
PERSPECTIVE VIEW



2nd Attempt (Final)

Design Principle #2

Rhythm



Rhythm is a design principle that suggests movement of action, which can be seen in repetitions of lines and forms. The 2nd model shows a progressive rhythm, in which the length of the lines joining two points (the repeating elements) to decrease gradually.

TOP VIEW



FRONT VIEW



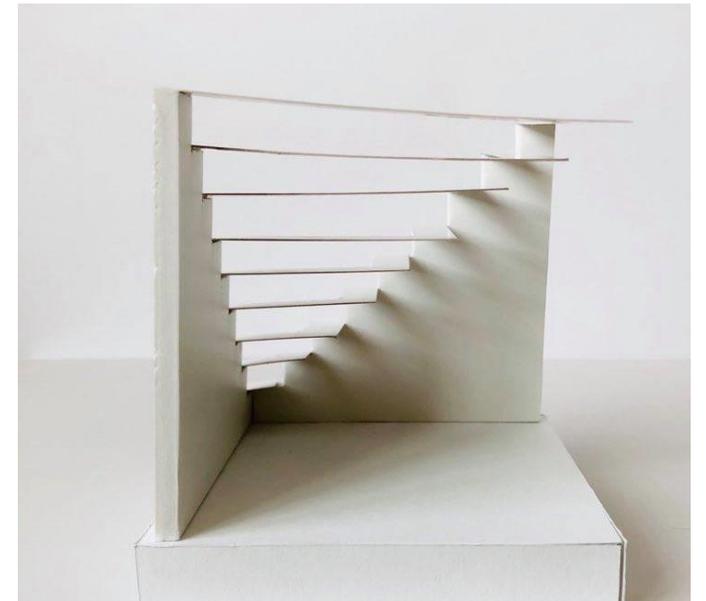
REAR VIEW



LEFT VIEW



RIGHT VIEW



PERSPECTIVE VIEW



PERSPECTIVE VIEW



CLOSE-UP

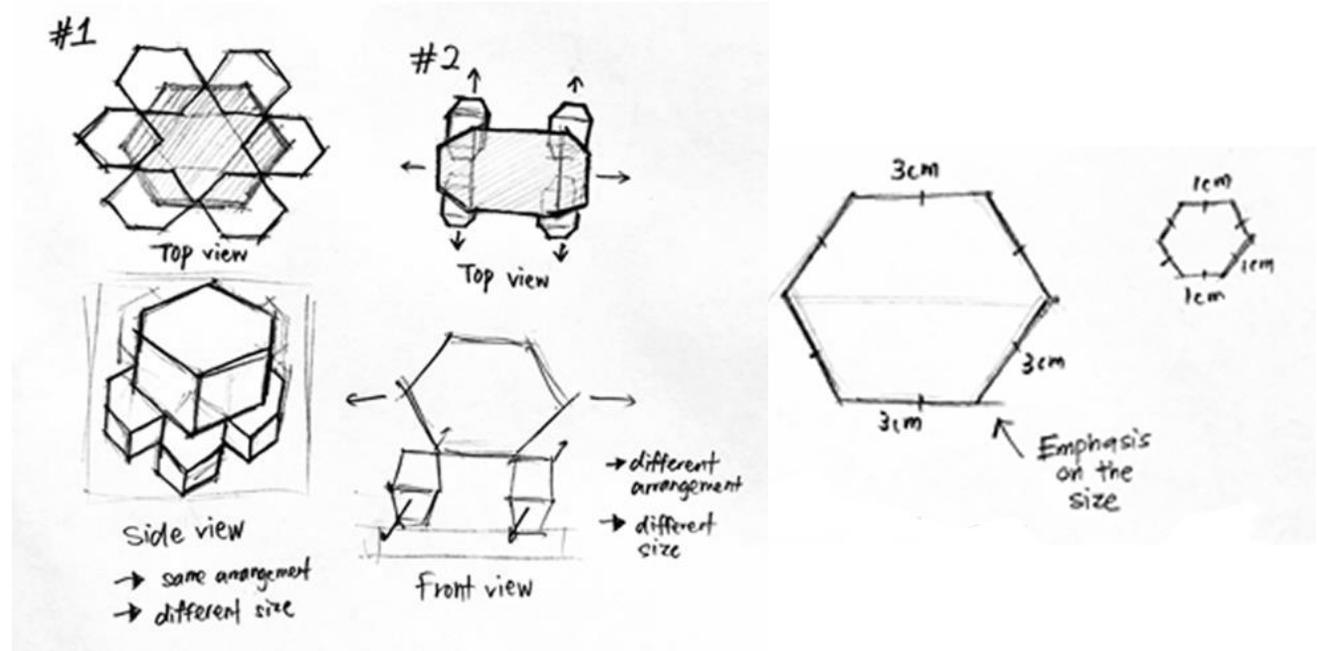


PERSPECTIVE VIEW



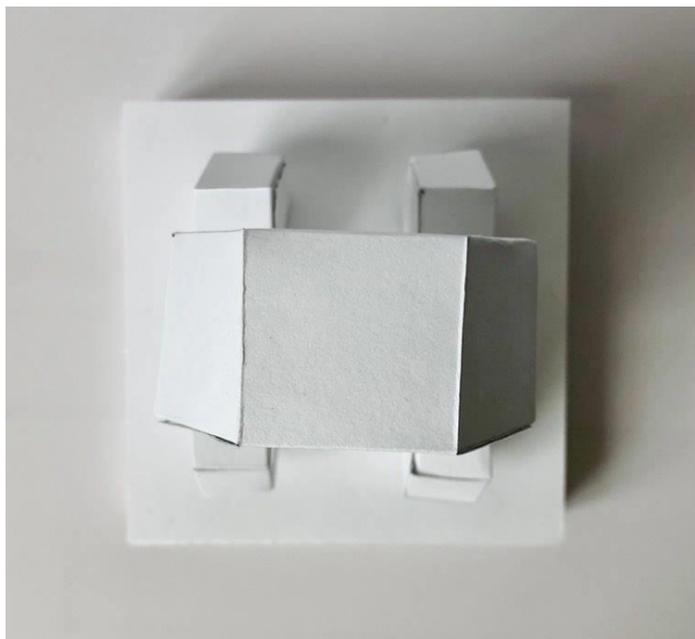
Design Principle #3

EMPHASIS



Emphasis is a strategy that attract viewers' attention to a specific part. The larger hexagonal prism on the top is the focal point, which stands out because of its larger size and the opposite arrangement.

TOP VIEW



FRONT VIEW



REAR VIEW



LEFT VIEW



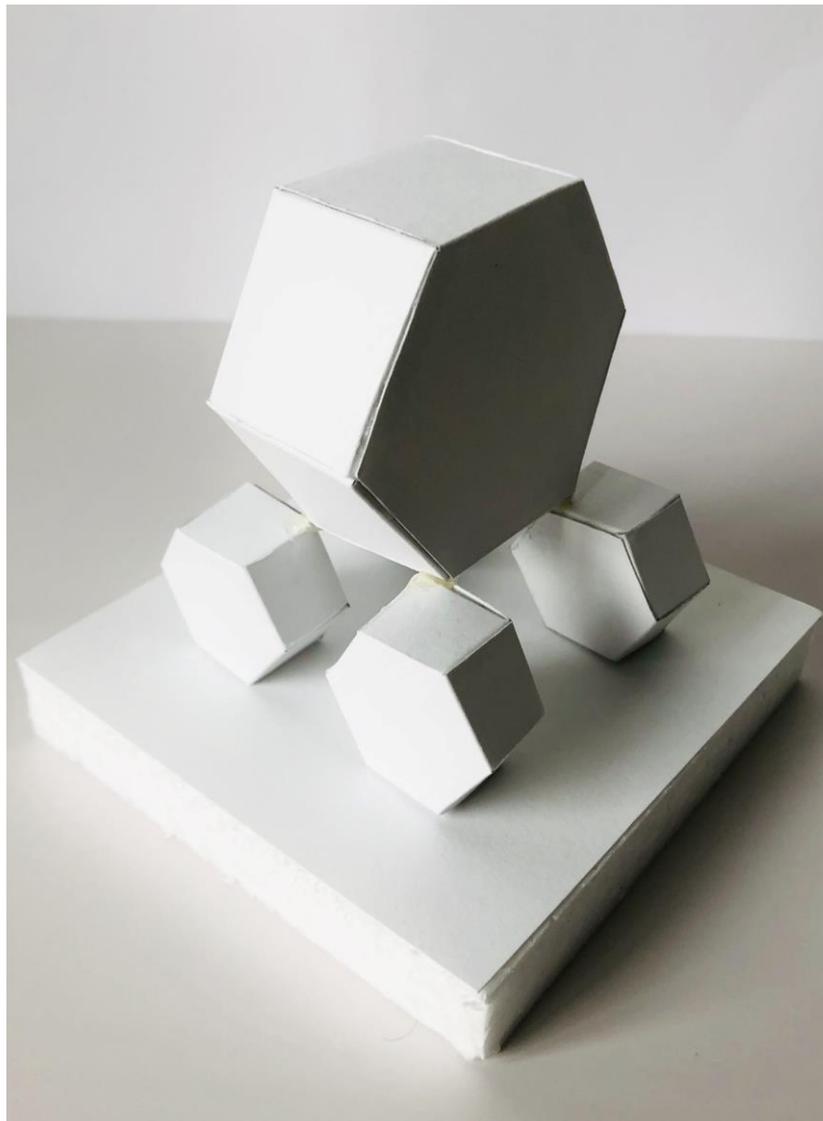
RIGHT VIEW



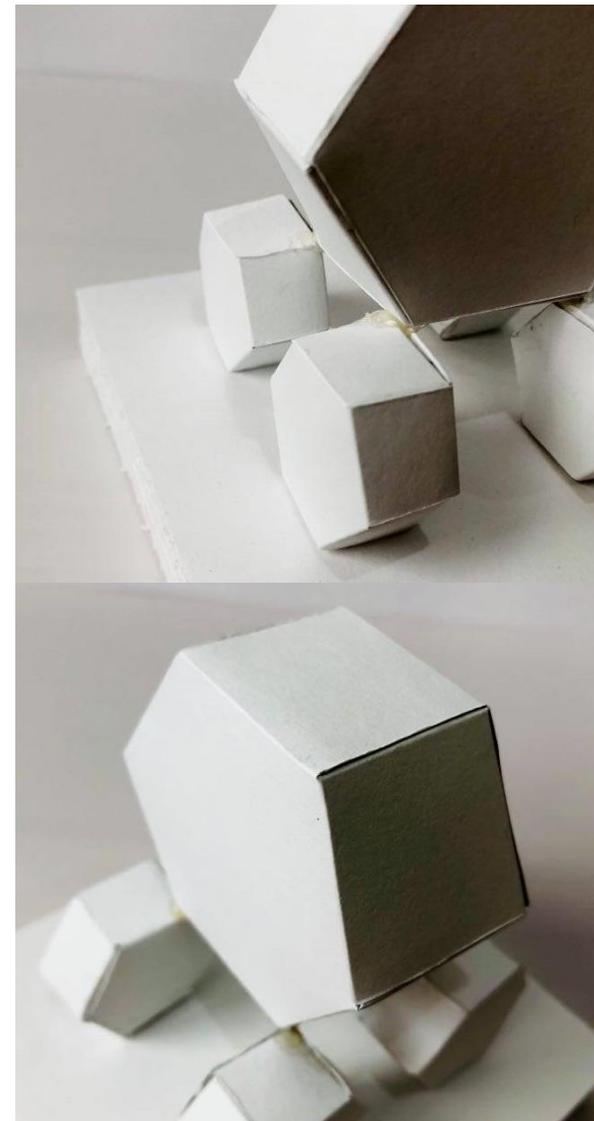
PERSPECTIVE VIEW



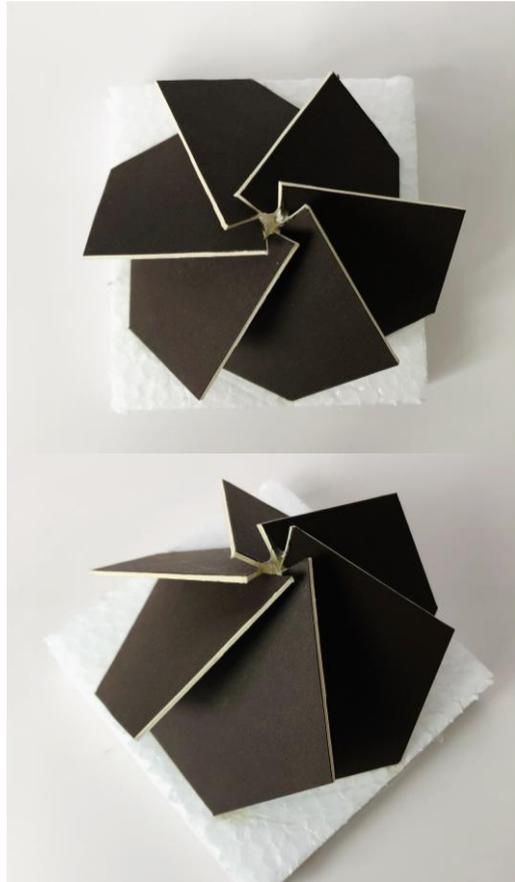
PERSPECTIVE VIEW



CLOSE-UP



TOP VIEW & PERSPECTIVE VIEW



1st Attempt

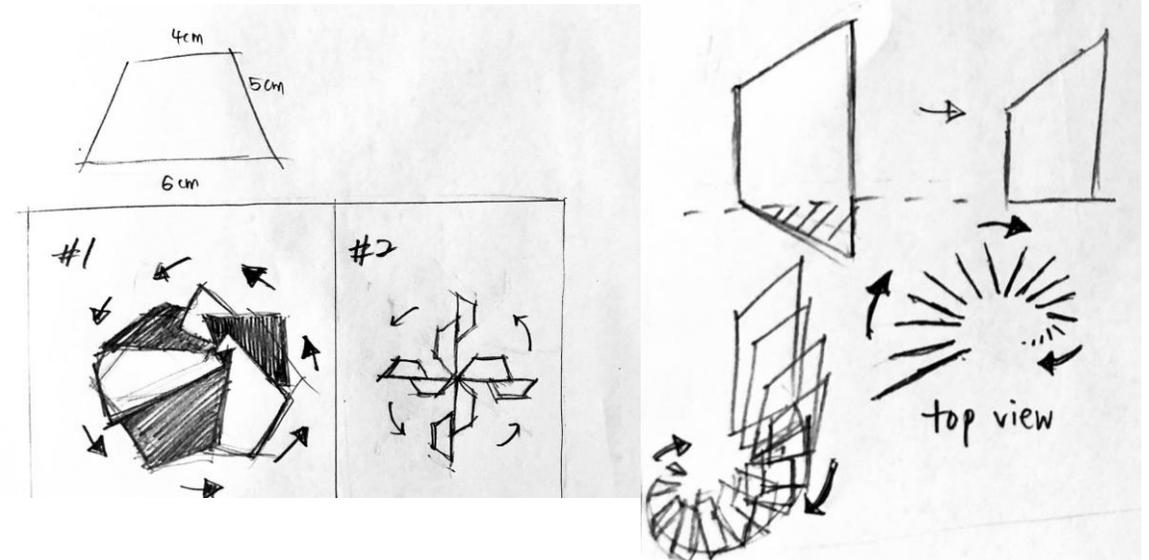
PERSPECTIVE VIEW



2nd Attempt (Final)

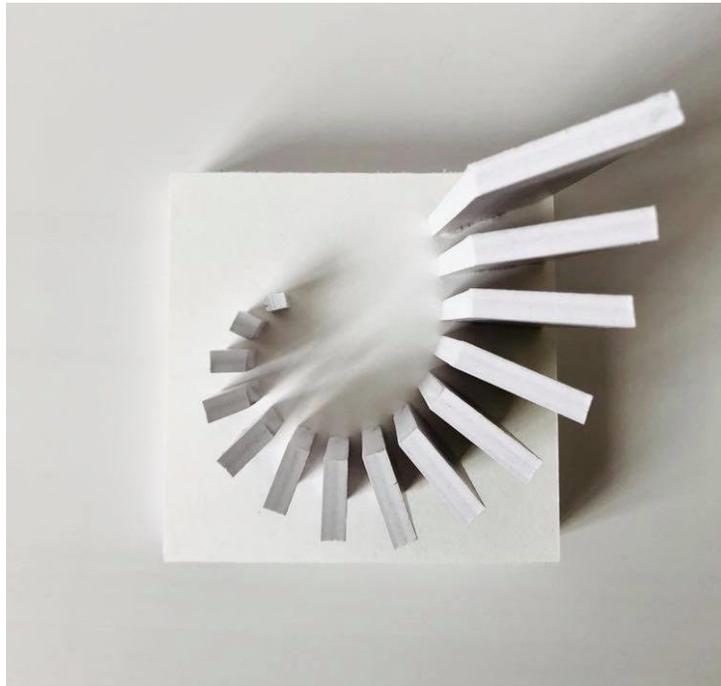
Design Principle #4

MOVEMENT



Movement is the path the viewers' eyes take through the art. This model follows the golden ratio, which directs the eyes from the highest point to the lowest point. The right trapeziums are arranged vertically, vary in height and width.

TOP VIEW



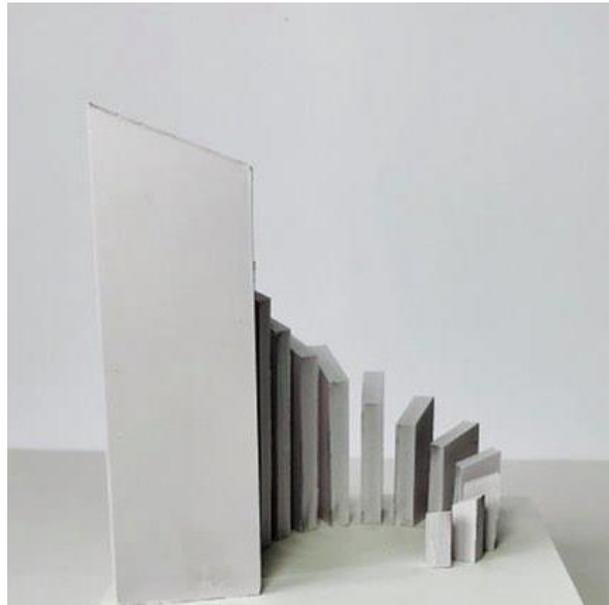
FRONT VIEW



BACK VIEW



LEFT VIEW



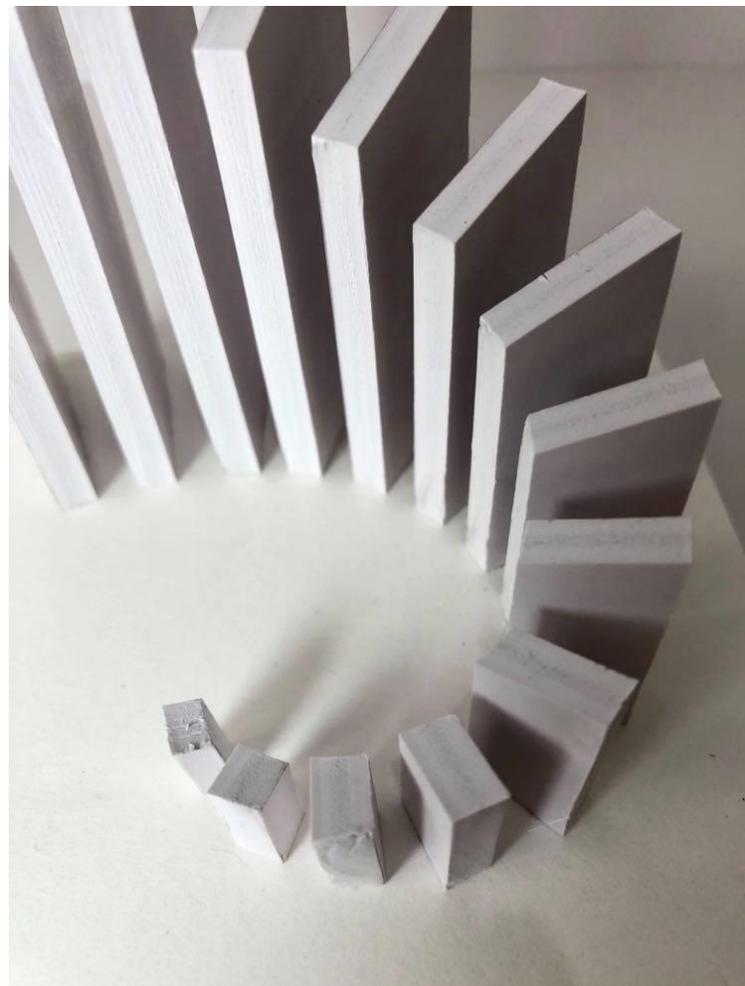
RIGHT VIEW



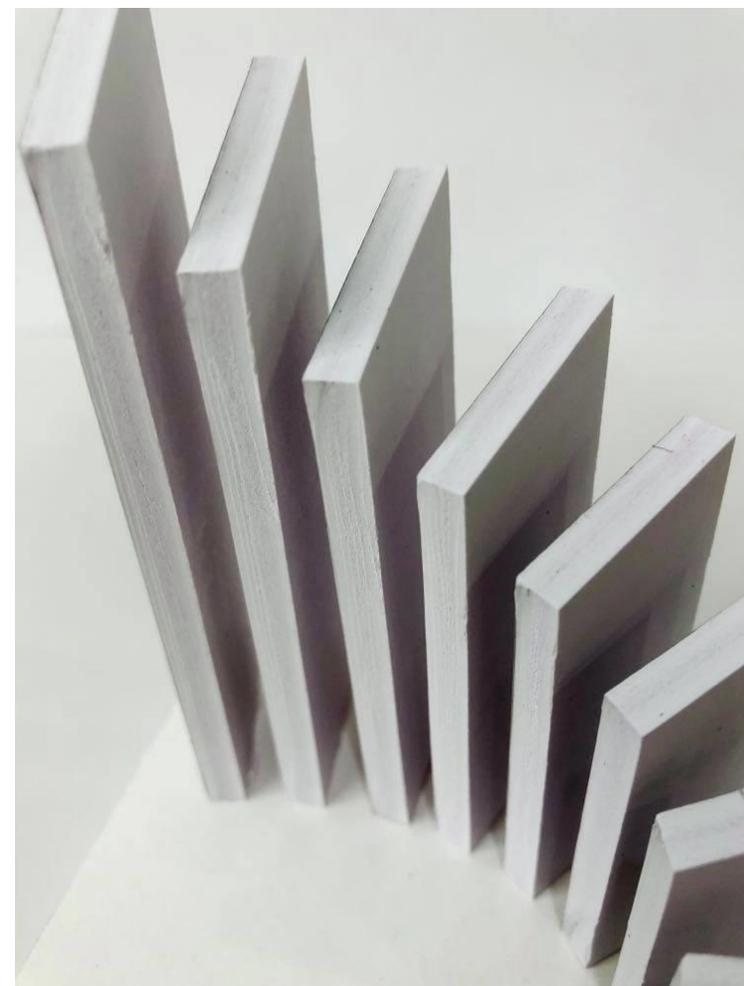
PERSPECTIVE VIEW



CLOSE-UP



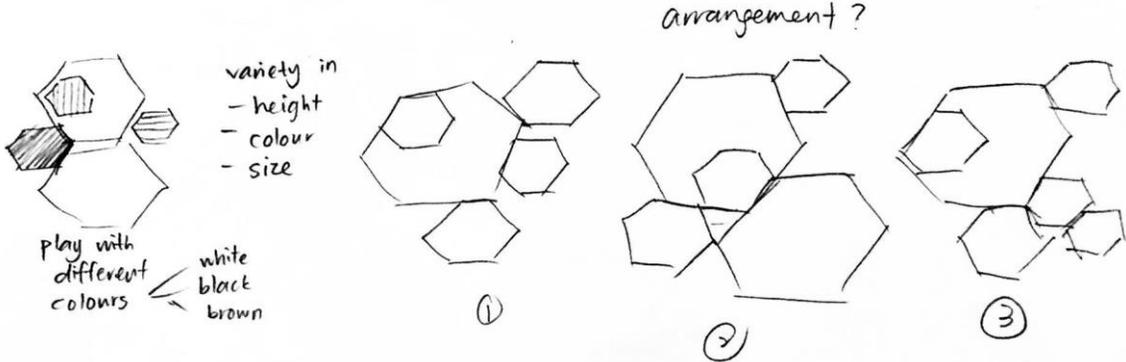
CLOSE-UP



Design Principle #5

Variety

PERSPECTIVE VIEW

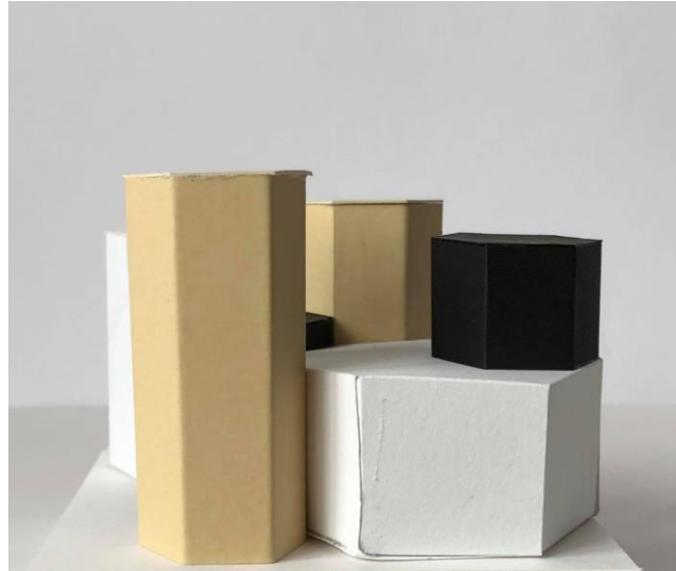


Variety is the use of several elements of design to add visual interests to an art. In this model, variety is created in several ways, in terms of colour, size, and height.

TOP VIEW



FRONT VIEW



REAR VIEW



LEFT VIEW



RIGHT VIEW



CLOSE-UP



CLOSE-UP



CLOSE-UP



PERSPECTIVE VIEW



1st Attempt

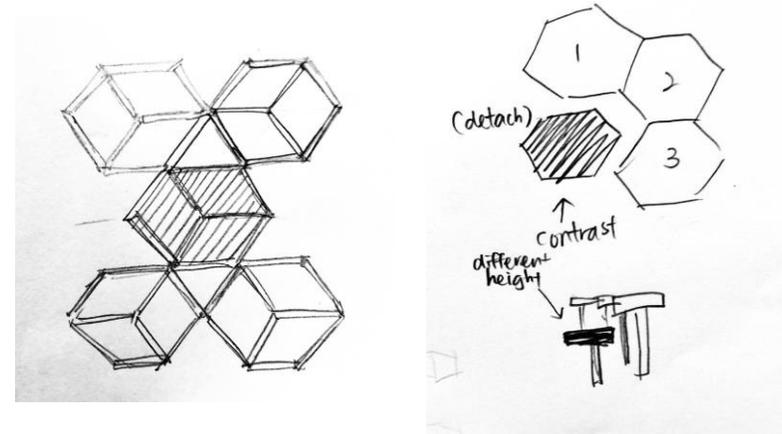
PERSPECTIVE VIEW



2nd Attempt (Final)

Design Principle #6

CONTRAST



The purpose of contrast is to differentiate similar elements from each other in a composition. In the second model, the black hexagonal shape with a lower height is the contrasting element which grabs the attention. It is also detaching from other regular pattern.

TOP VIEW



FRONT VIEW



REAR VIEW



LEFT VIEW



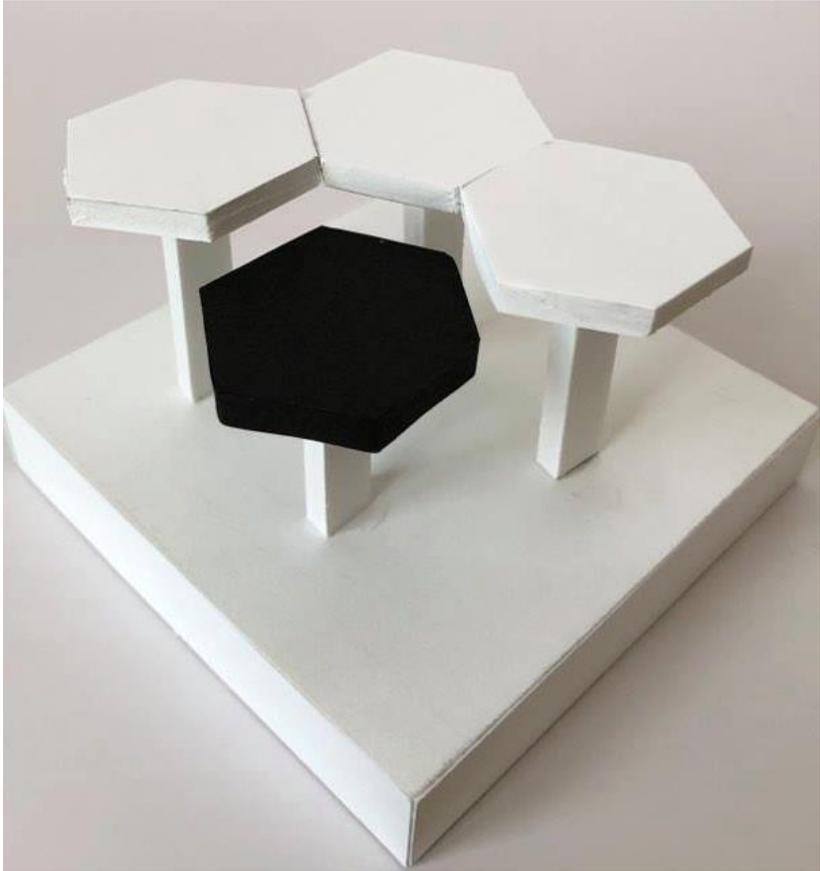
RIGHT VIEW



CLOSE-UP



PERSPECTIVE VIEW



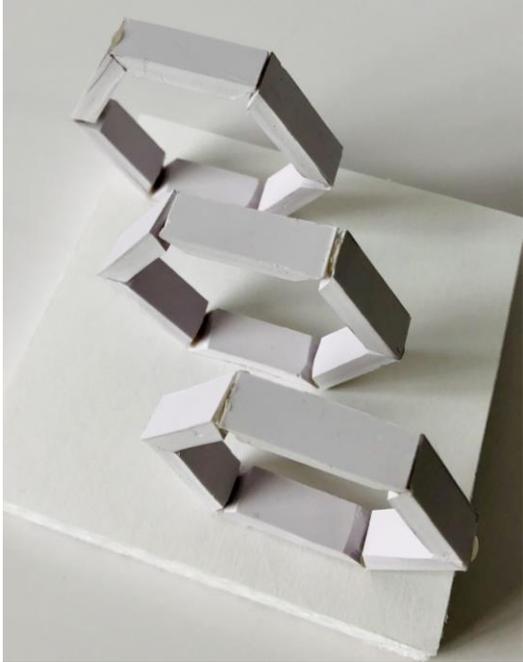
PERSPECTIVE VIEW



Design Principle #7

HARMONY

PERSPECTIVE VIEW

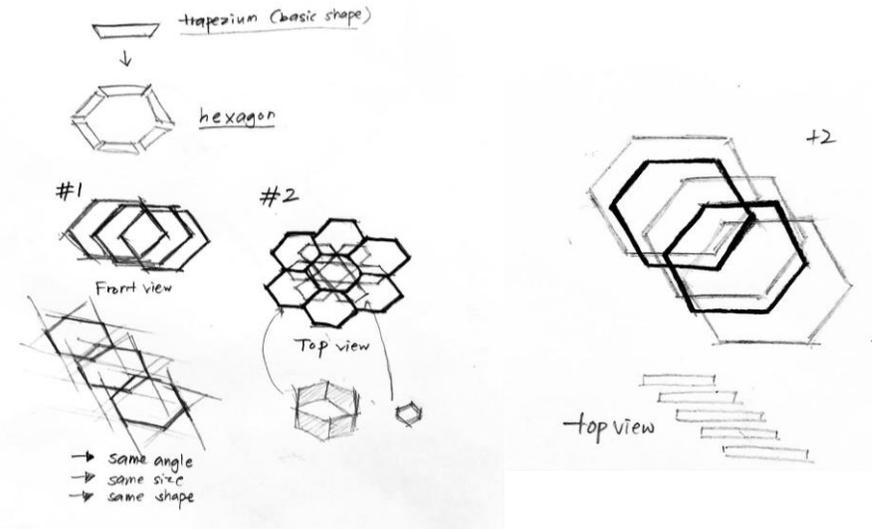


1st Attempt

PERSPECTIVE VIEW



2nd Attempt (Final)



Harmony is the principle of art that creates cohesiveness by stressing the similarities of separate but related parts. The repetition of hollow hexagons with same size, colour and thickness create a sense of togetherness amongst otherwise separate parts.

TOP VIEW



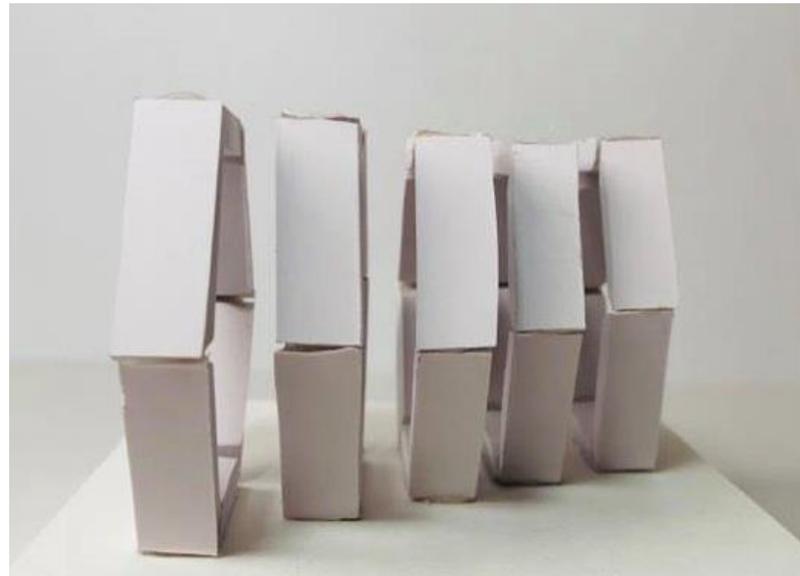
FRONT VIEW



REAR VIEW



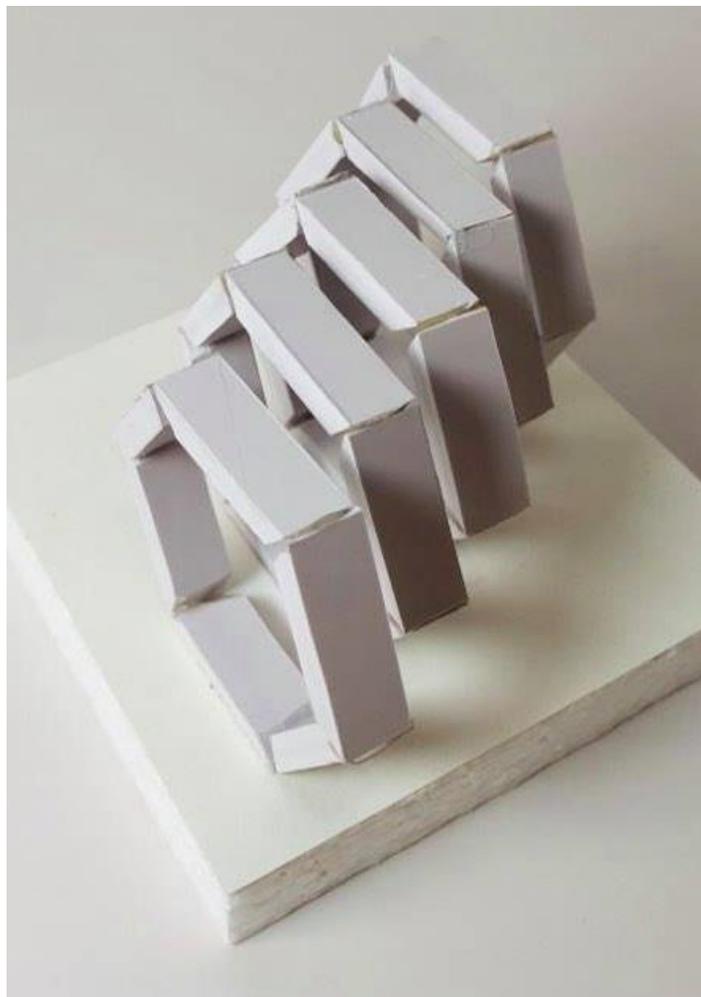
LEFT VIEW



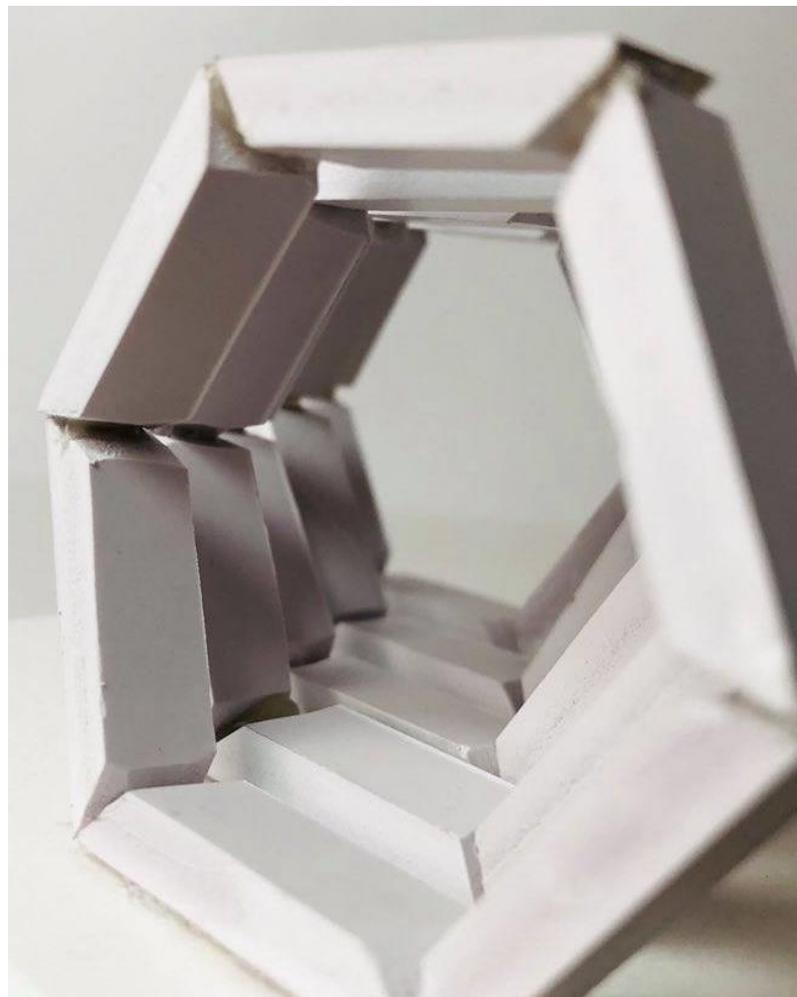
RIGHT VIEW



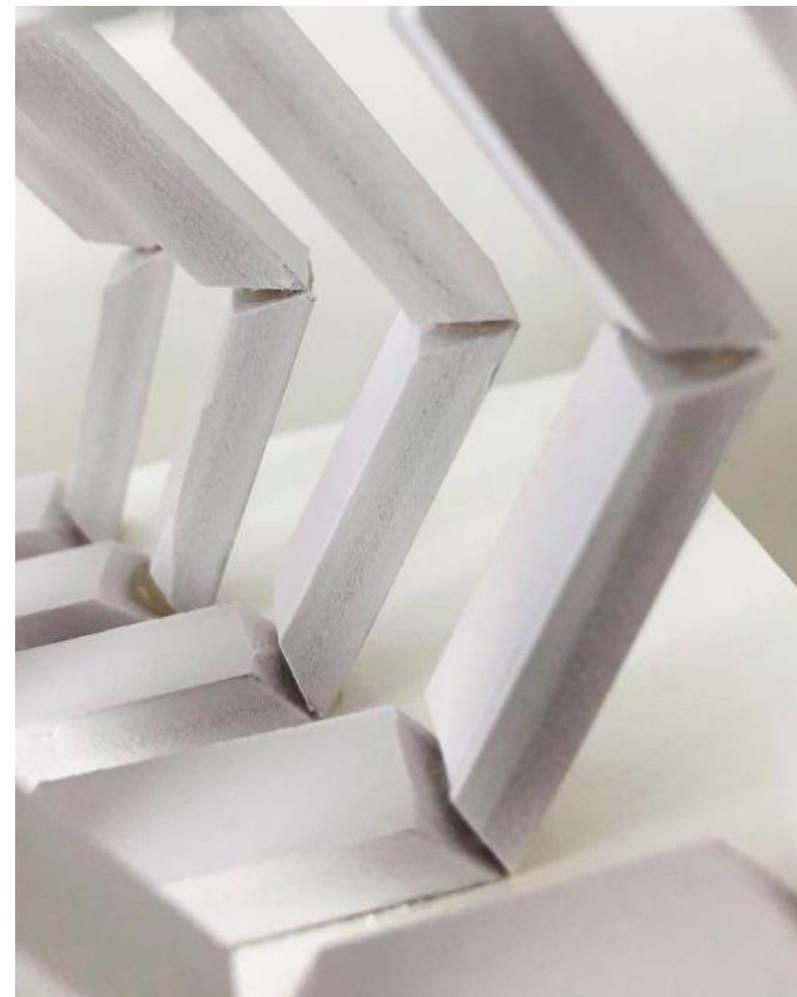
PERSPECTIVE VIEW



CLOSE-UP



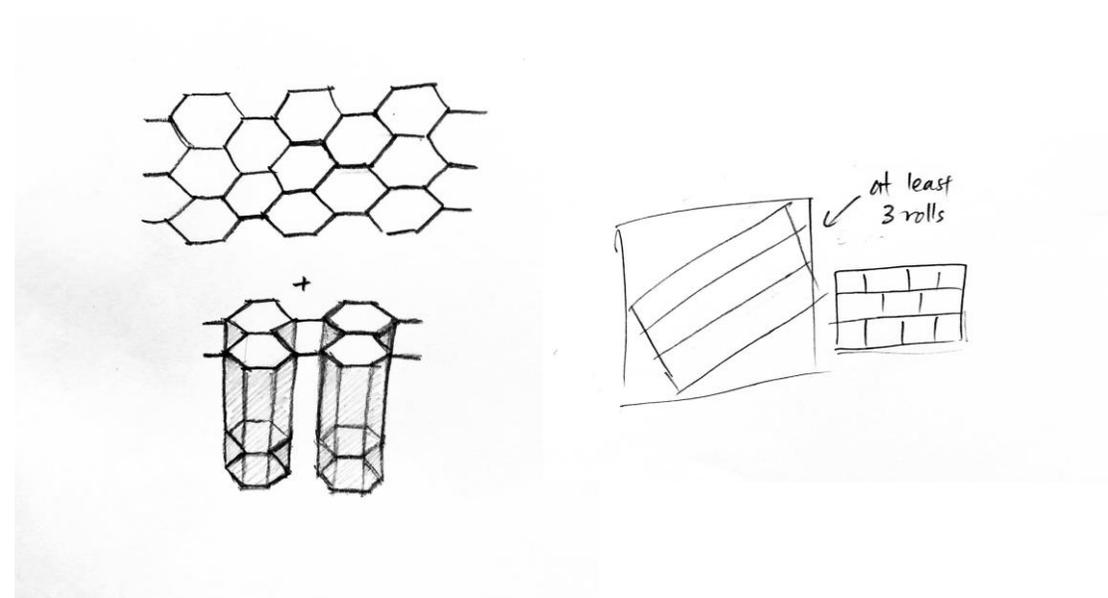
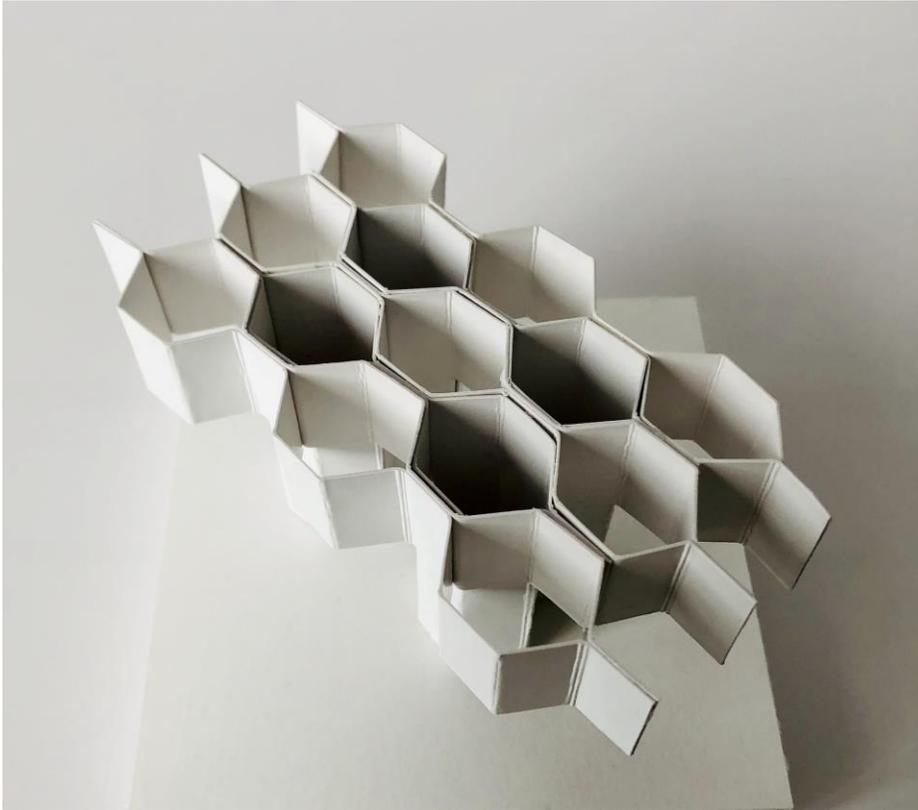
CLOSE-UP



Design Principle #8

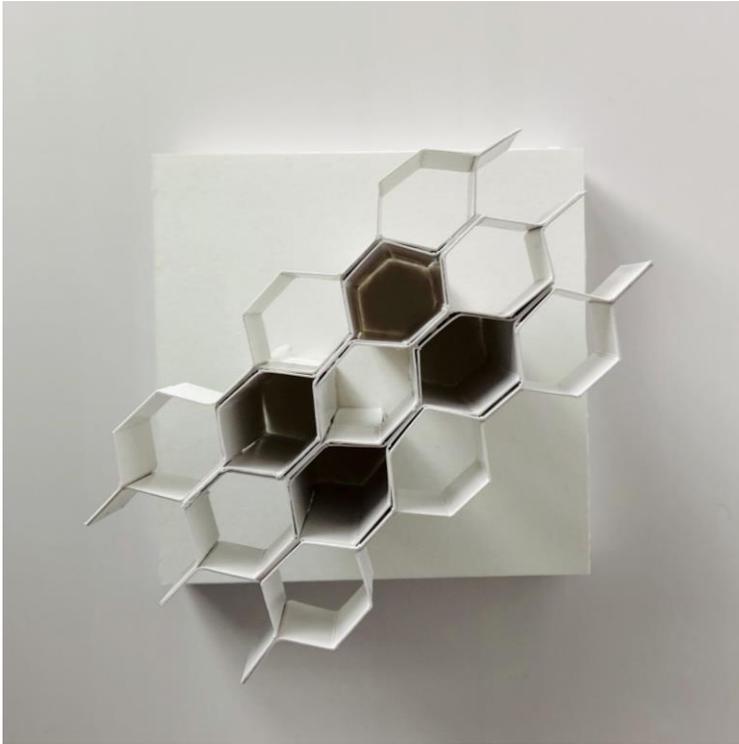
UNITY

PERSPECTIVE VIEW

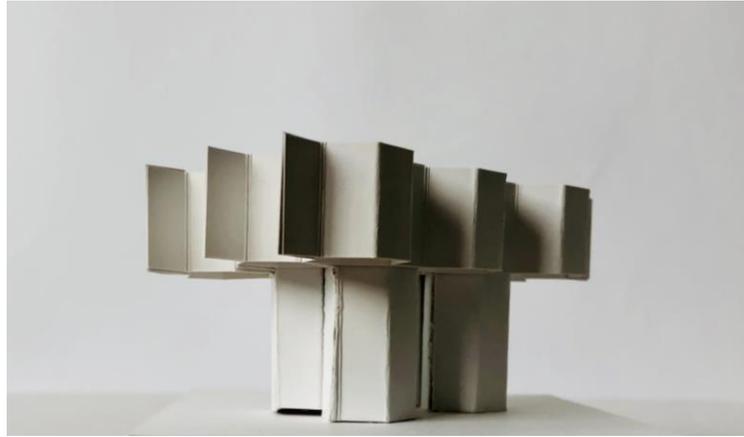


Unity allows each individual element to coexist with one another to form aesthetically pleasing design. The honeycomb pattern shows oneness because of its arrangement which creates a sense of order and completeness.

TOP VIEW



FRONT VIEW



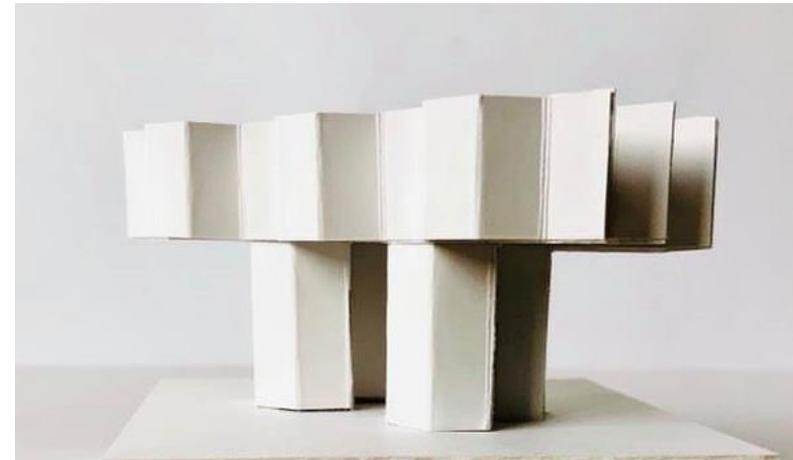
REAR VIEW



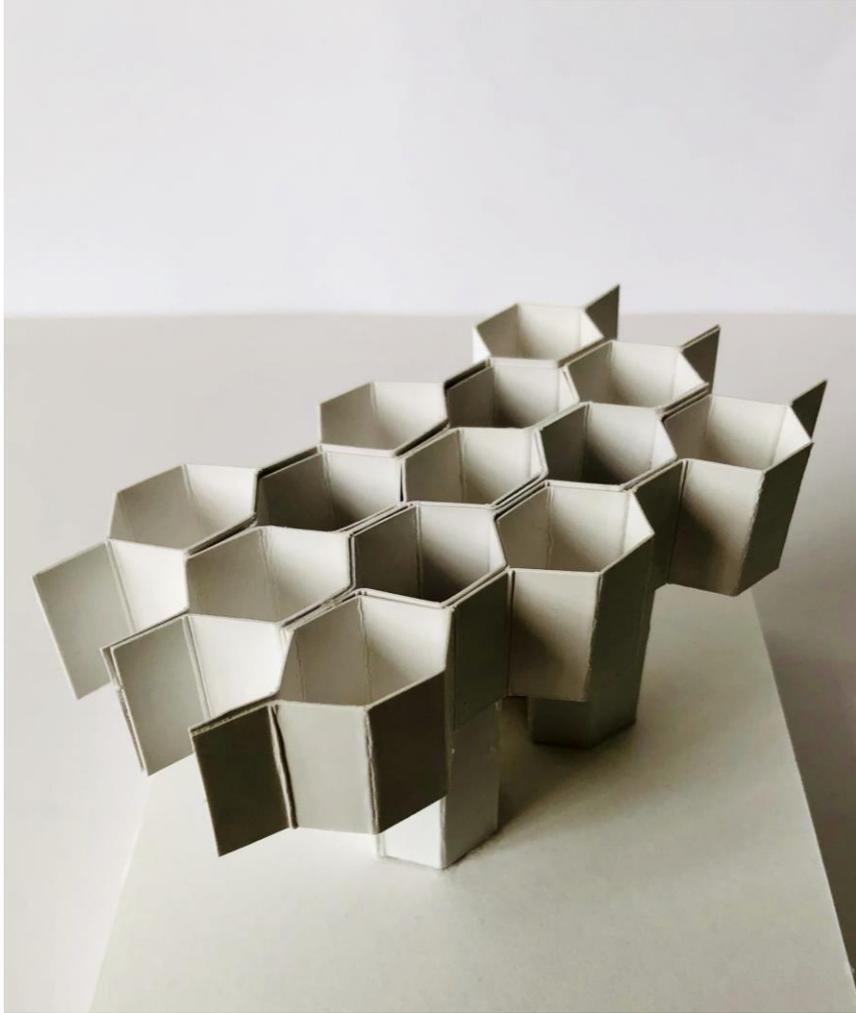
LEFT VIEW



RIGHT VIEW



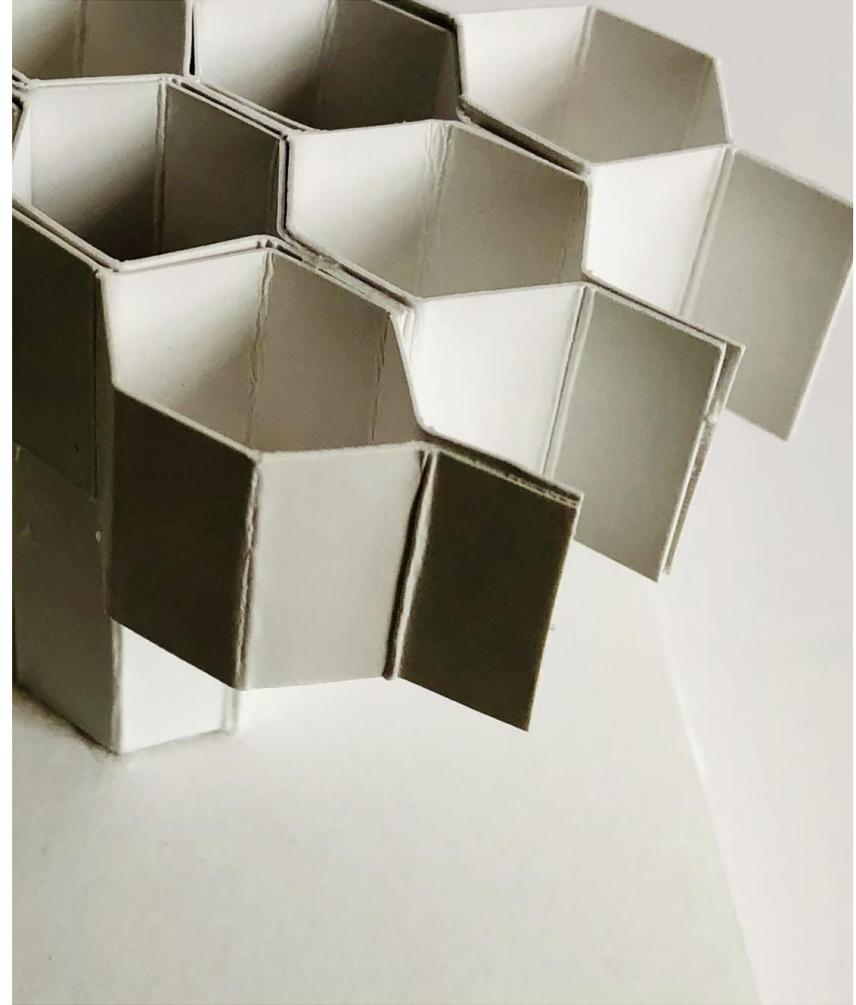
PERSPECTIVE VIEW

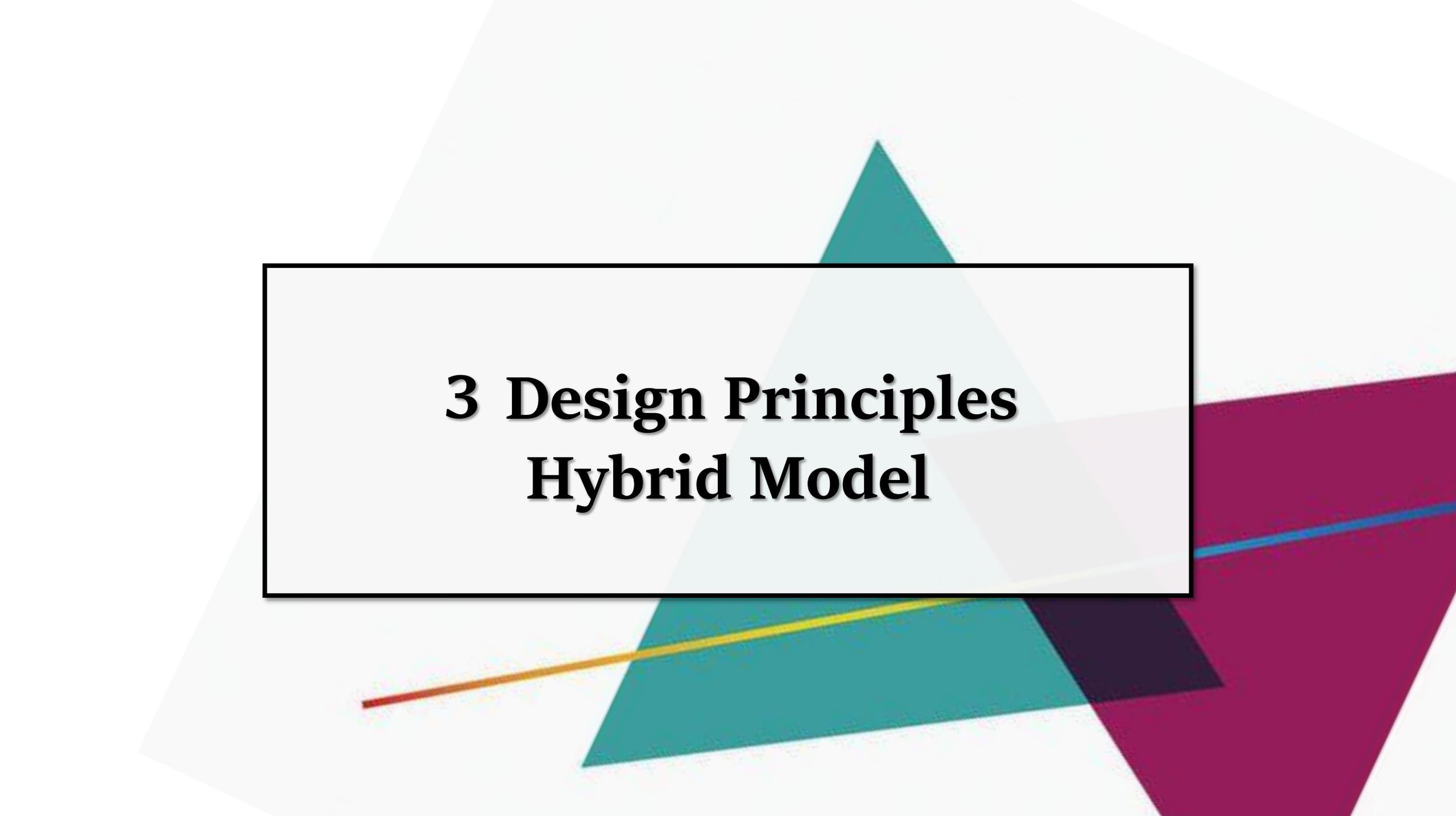


CLOSE-UP



CLOSE-UP



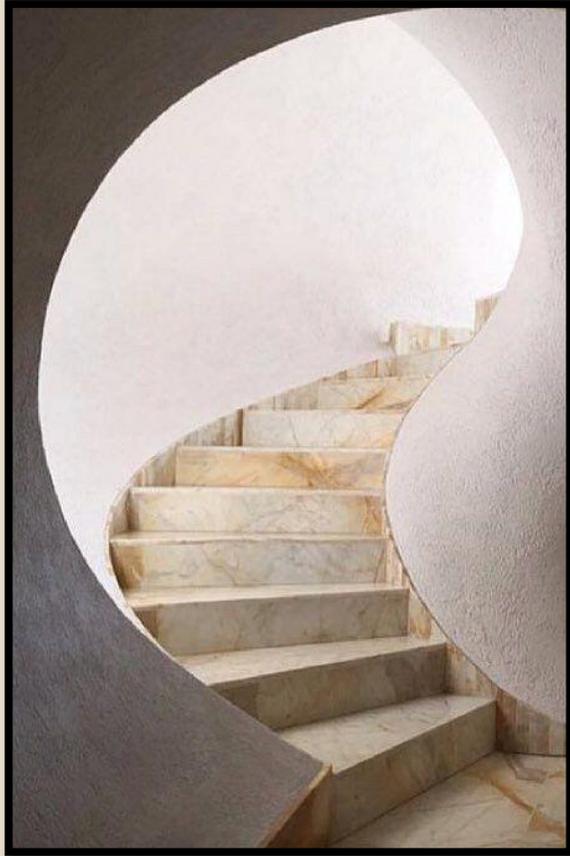


3 Design Principles Hybrid Model



Inspiration

Curved Staircase



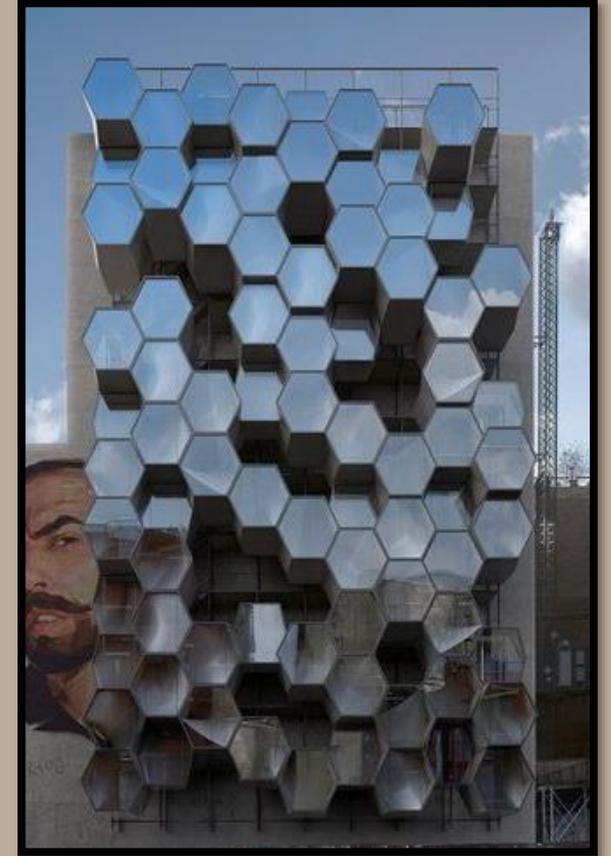
A curved style staircase has no landings. Instead, the stairs are continuous, following the bend of the banister to make a striking architectural statement.

Spiderweb/ Honeycomb Concept



Spider web-like / honeycomb structures had found widespread applications in various fields, including architecture.

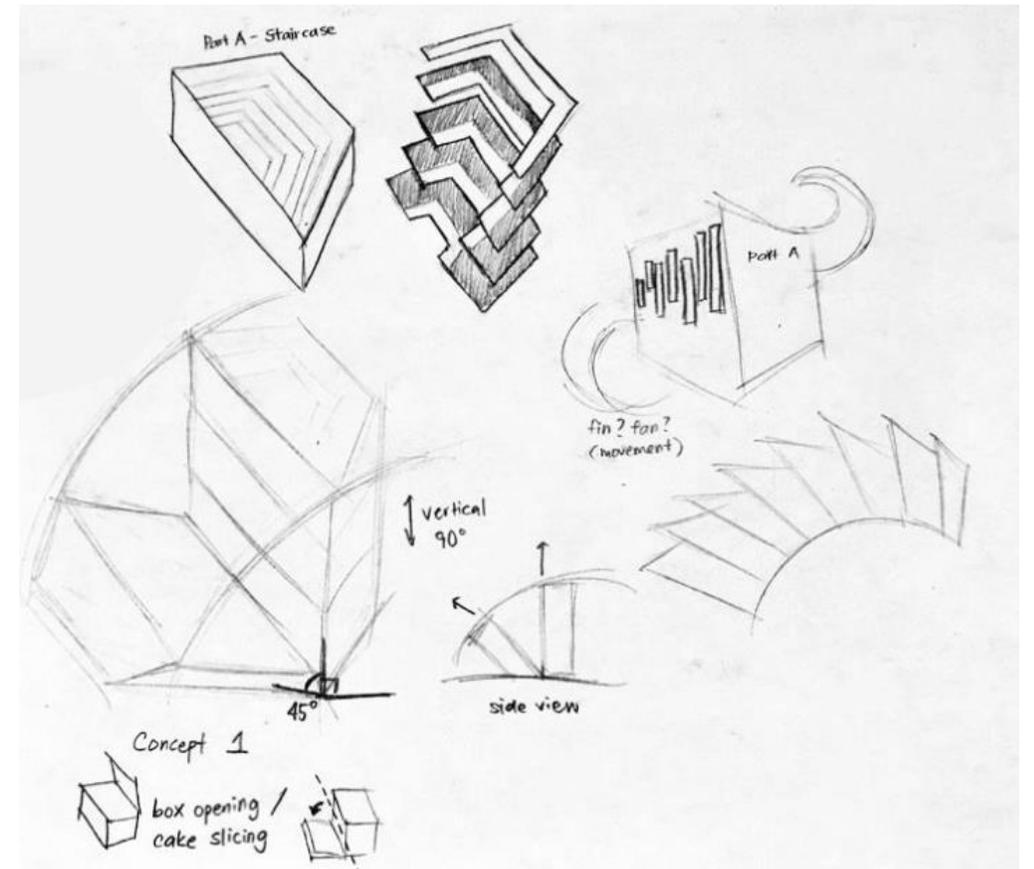
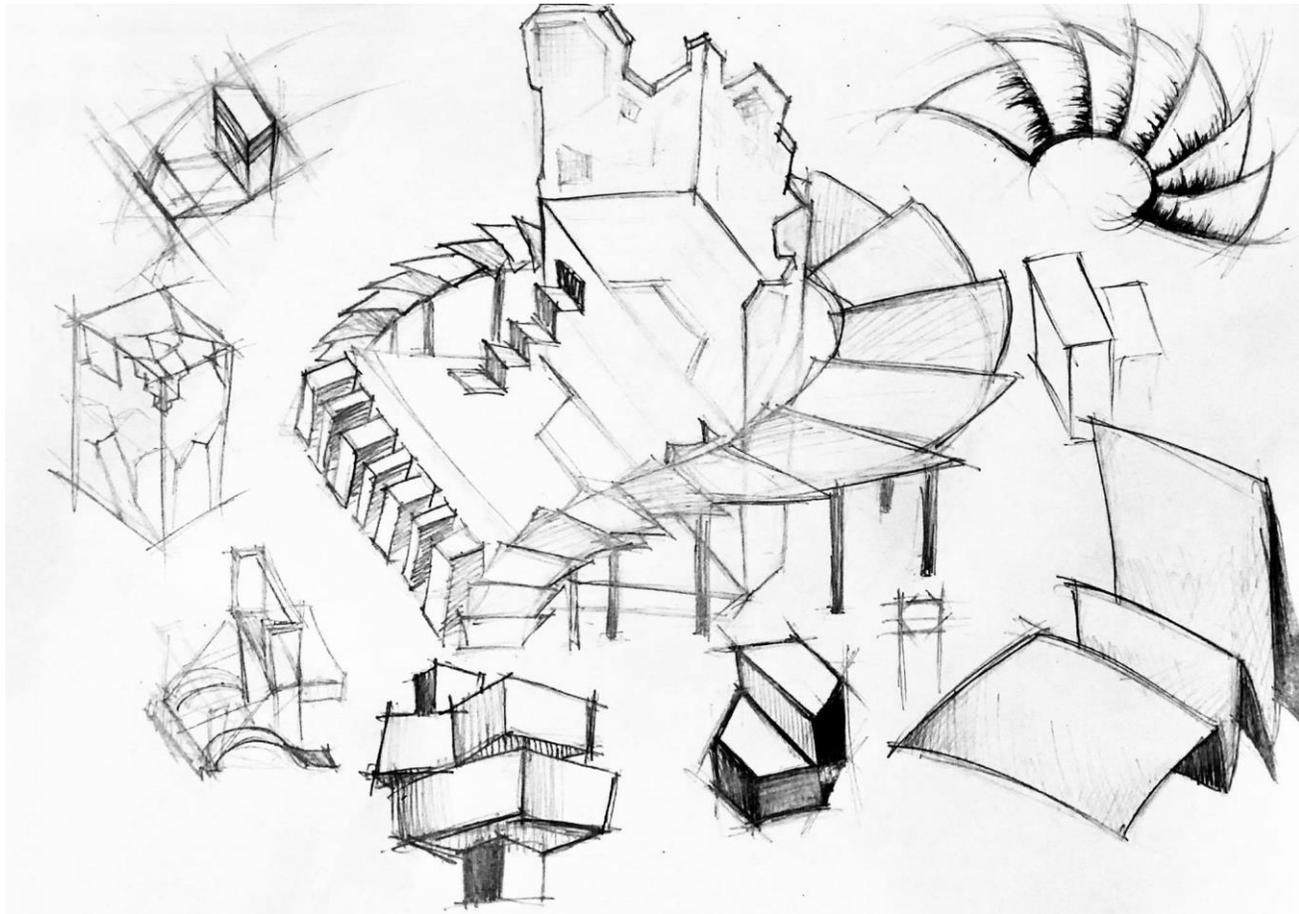
Parasitic Architecture



Parasitic architecture is defined as a building that is attached to an existing larger structure.



Design Development



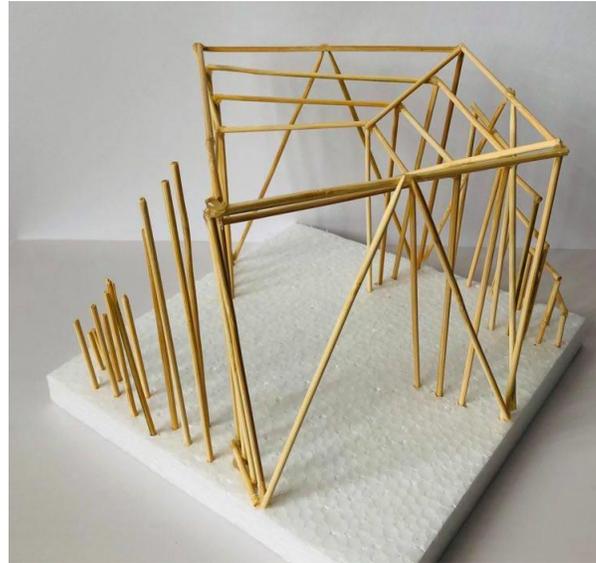
Chosen 3 principles : Rhythm, Movement, Contrast

Exploring the composition to join different elements as a whole to create oneness.

Mock-up Models



TOP VIEW



PERSPECTIVE VIEW



PERSPECTIVE VIEW

1st attempt

Play with bamboo sticks to construct the main structure.

Mock-up Models



TOP VIEW



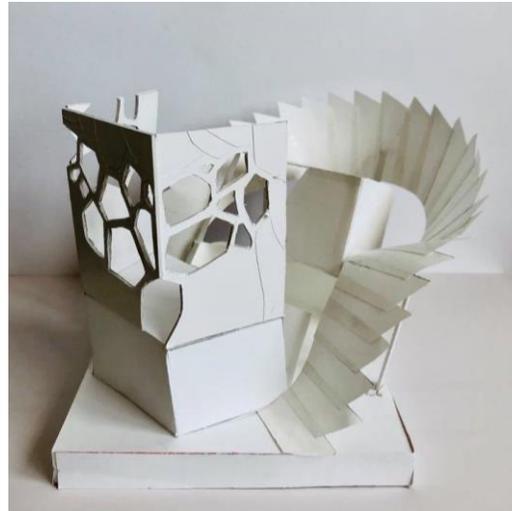
FRONT VIEW



REAR VIEW



LEFT VIEW



RIGHT VIEW

2nd attempt

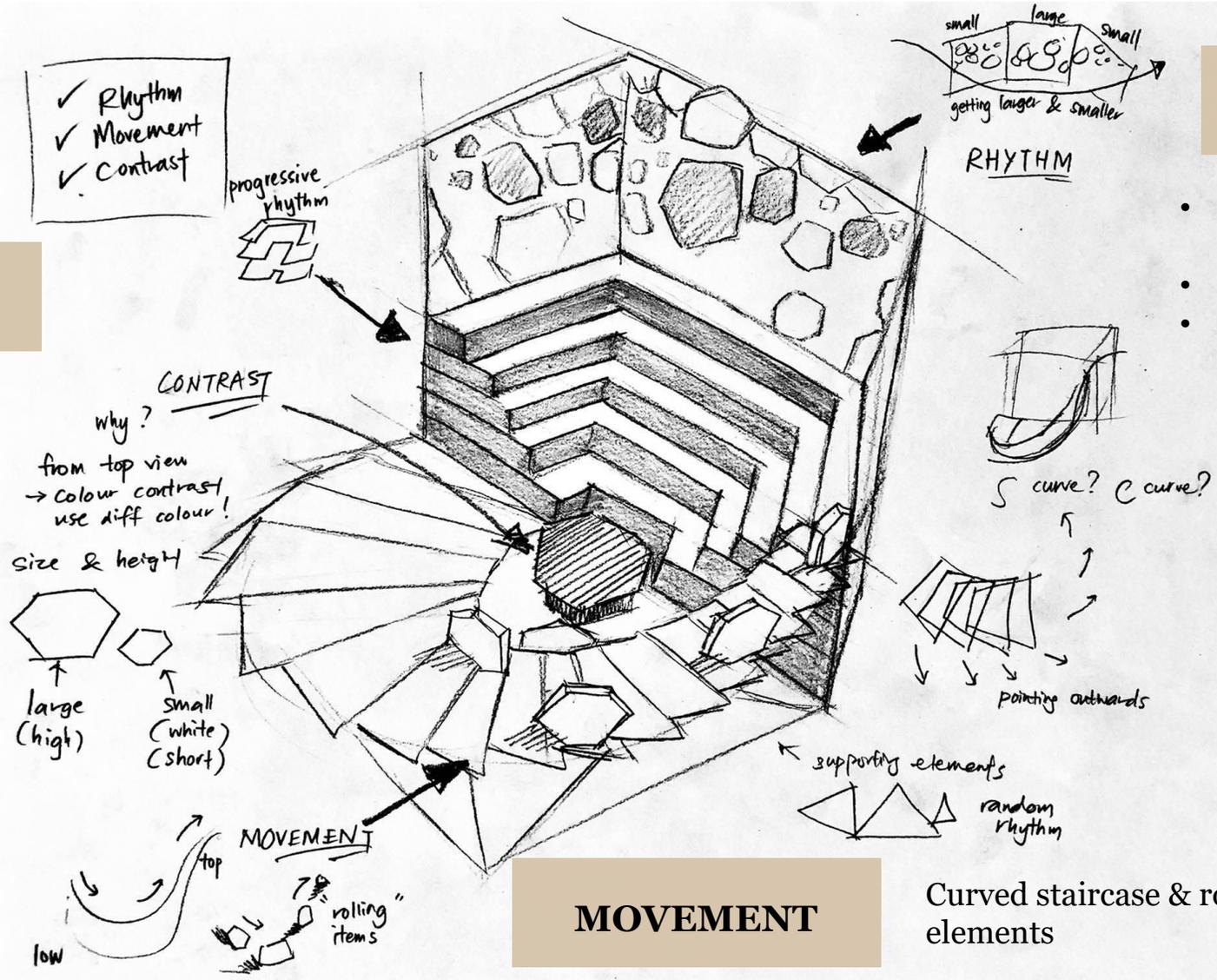
Drawing papers and white modeling boards are used to construct the model. This serves as the experiment to observe and investigate the overall composition of the hybrid model.

Final Sketch

CONTRAST

Introduce colour contrast. Use another small element to strengthen the effect.

- ✓ Rhythm
- ✓ Movement
- ✓ Contrast

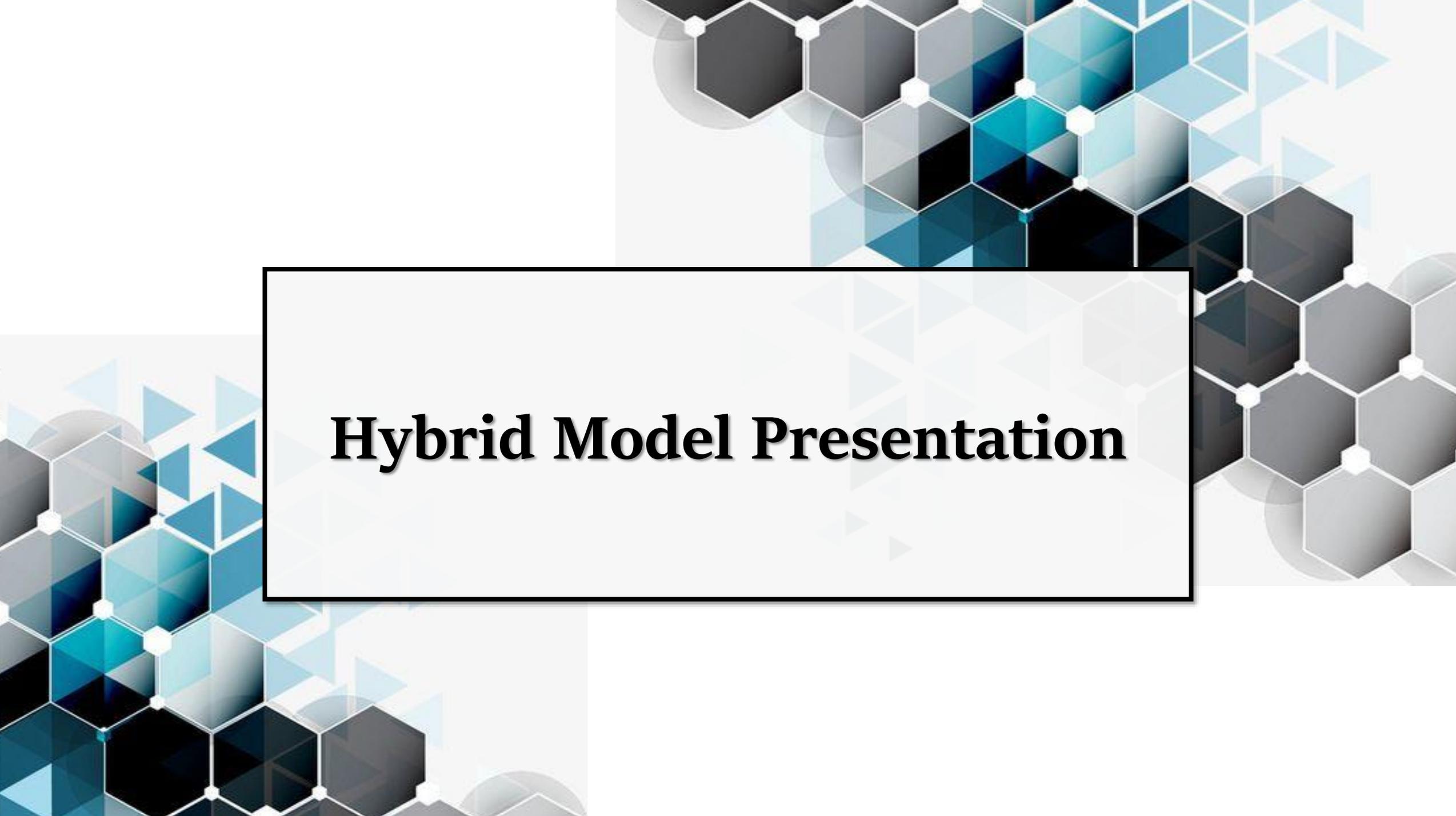


RHYTHM

- Spiderweb/honeycomb pattern
- Staircases
- Some hexagonal shapes stick on the wall to represent parasitic architecture

MOVEMENT

Curved staircase & rolling hexagonal elements



Hybrid Model Presentation

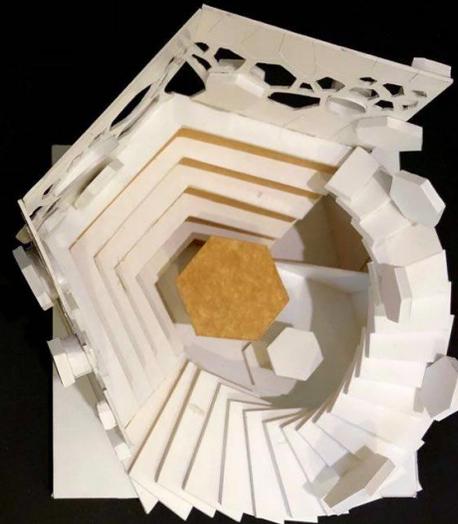
Melaleucal

Melaleucal the concert hall is formed with the combination of 3 design principles, rhythm, movement and contrast.

It is inspired by the spiderweb-like pattern/honeycomb, parasitic architecture and the curved staircase. The irregular hollow and protruding patterns that represent parasitic architecture create irregular rhythm. The progressive rhythm can be seen at both staircases, the curved stairs and the concert hall stairs.

The curved stairs which gradually become smaller, guide the viewers' eyes from low to top. The rolling hexagonal shapes on the curved stairs also highlight the principle of movement.

Last but not least, the contrasting element exists in the centre, which is a hexagon platform rising from the ground. The viewers can see the colour contrast from the top view, and also the size and height contrast with the smaller and shorter hexagon in white.



TOP VIEW



FRONT VIEW



REAR VIEW



LEFT VIEW



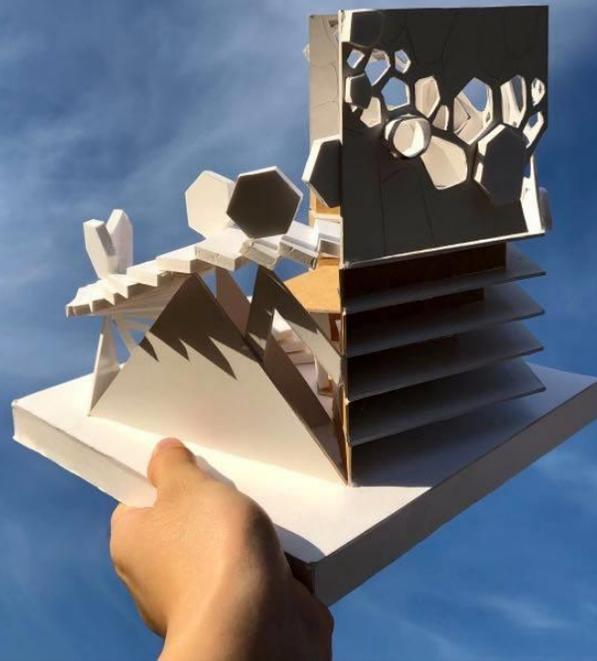
RIGHT VIEW



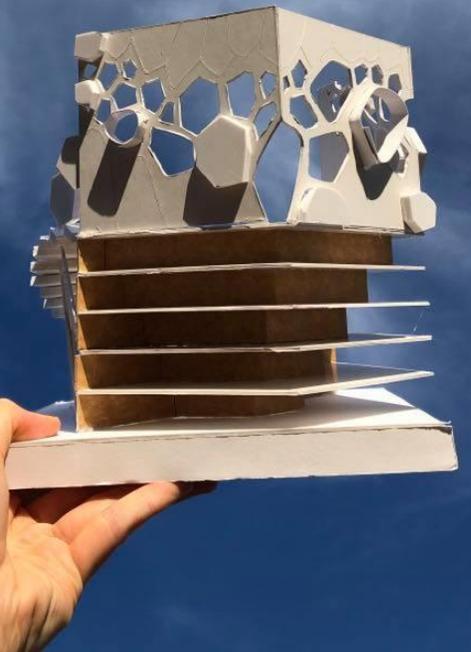
UNDER THE SUNLIGHT



PERSPECTIVE VIEW



PERSPECTIVE VIEW



REAR VIEW

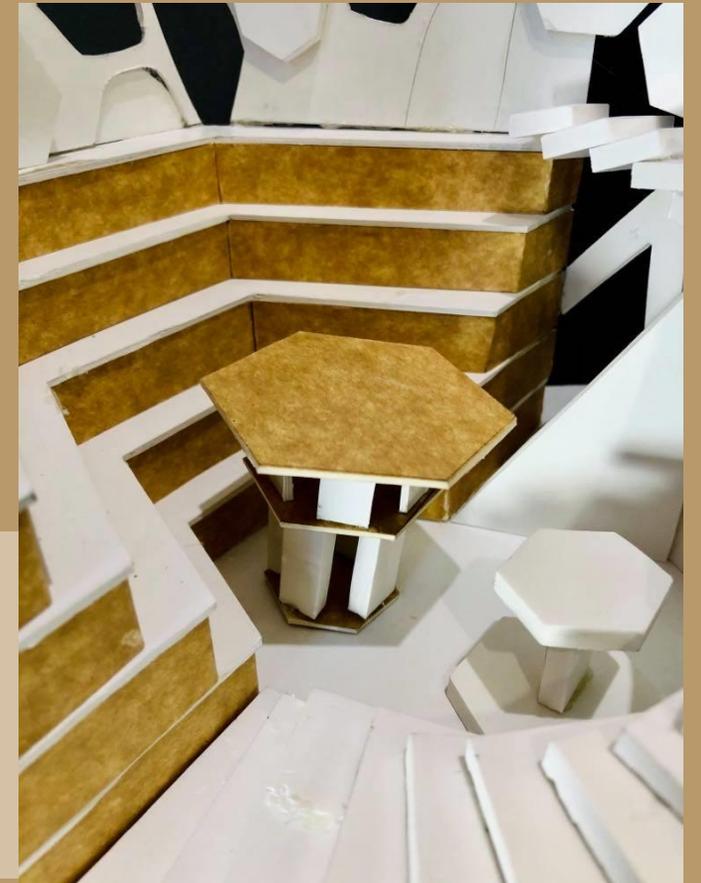
MOVEMENT

Curved staircase & rolling hexagonal elements



RHYTHM

Spiderweb/honeycomb pattern & staircases,

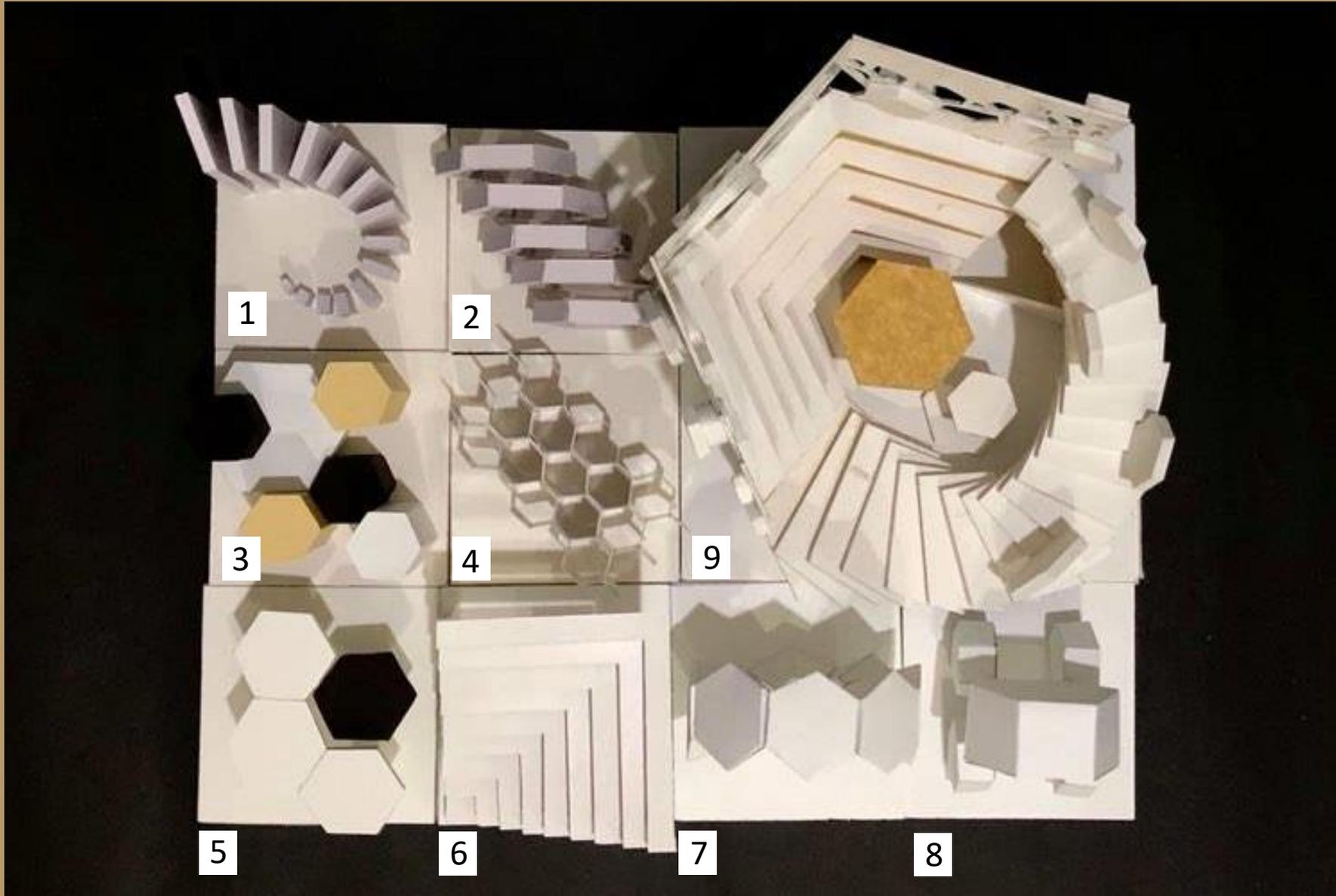


CONTRAST

Colour contrast, height and shape contrast.



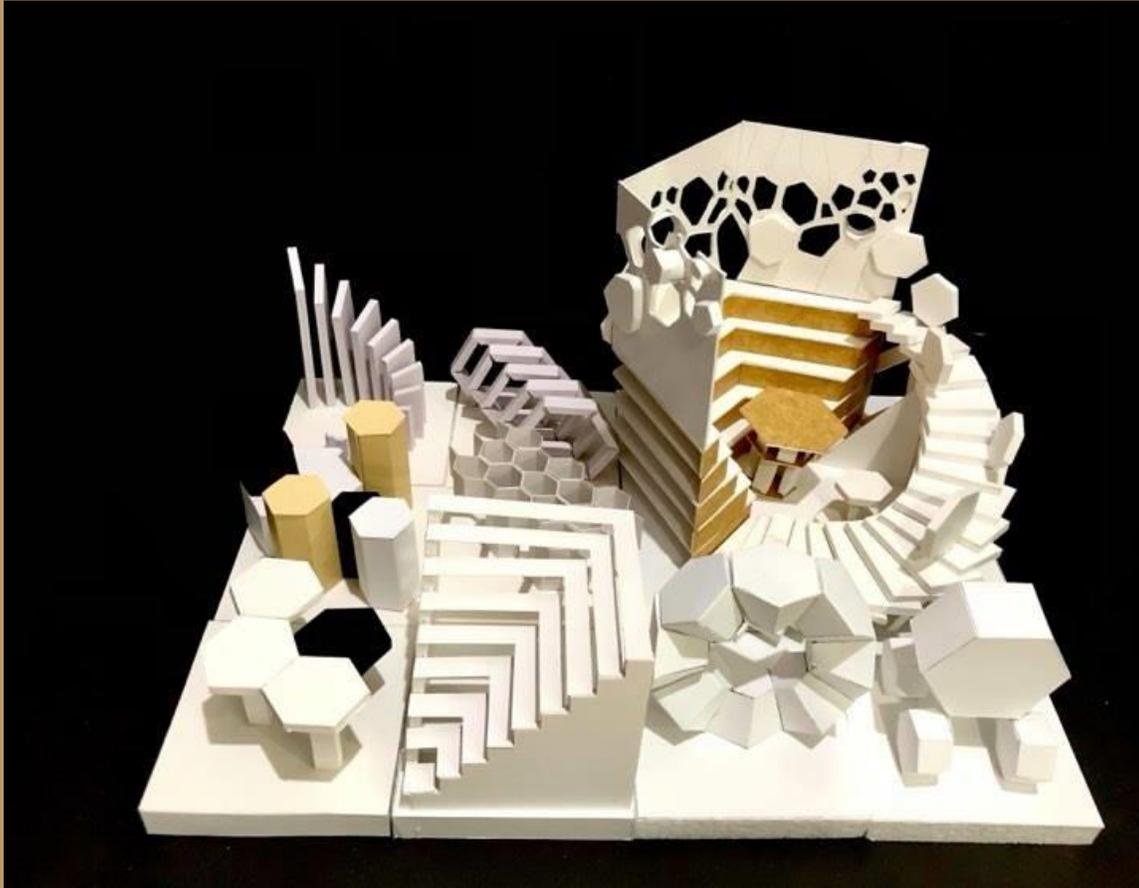
MODEL SERIES



TOP VIEW

8 DESIGN PRINCIPLES

- 1 – Movement
- 2 – Harmony
- 3 – Variety
- 4 – Unity
- 5 – Contrast
- 6 – Rhythm
- 7 – Balance
- 8 – Emphasis
- 9 – Hybrid Model



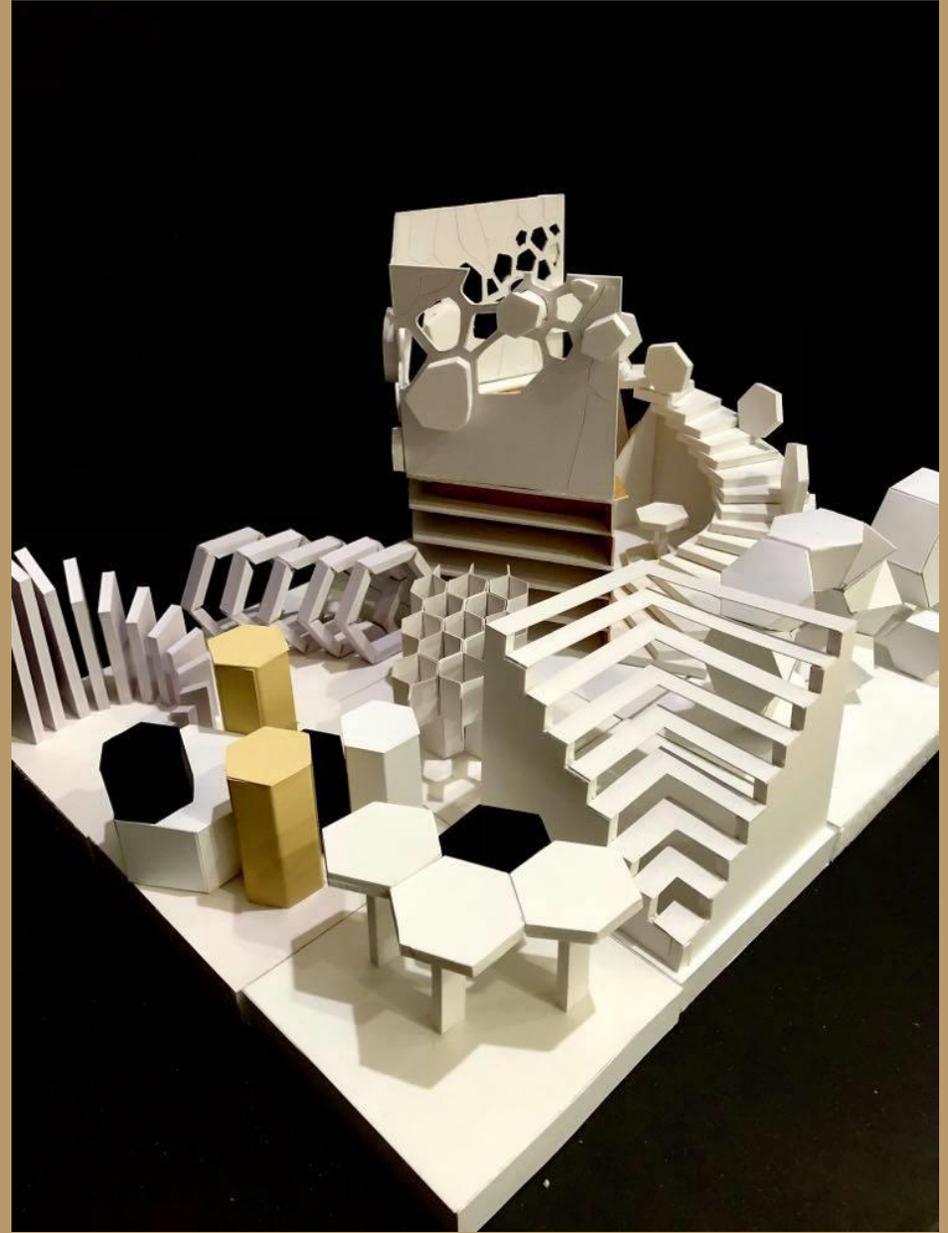
FRONT VIEW



REAR VIEW



PERSPECTIVE VIEW



PERSPECTIVE VIEW



**END OF
PRESENTATION**
