

Imasha Walatara

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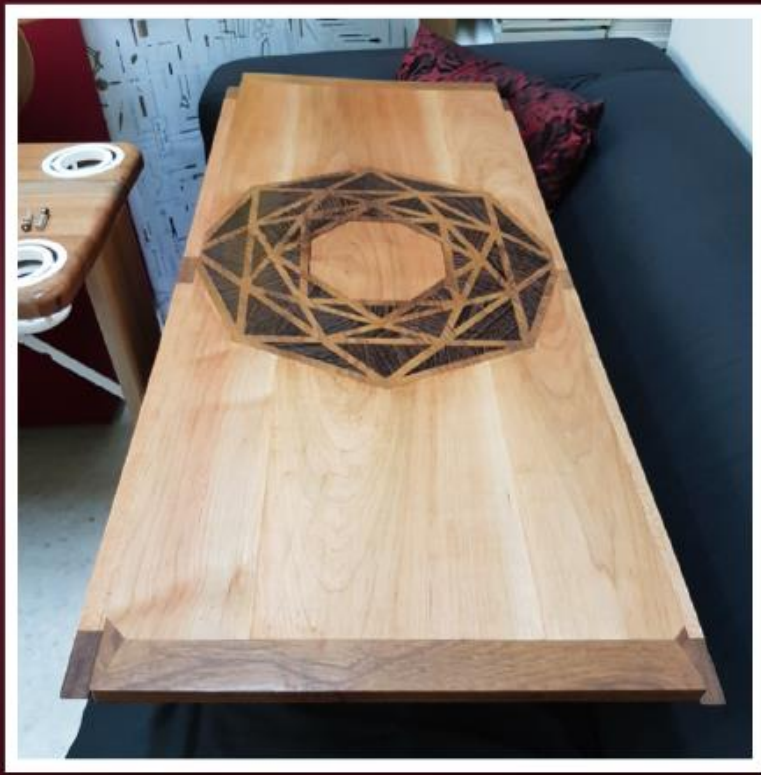
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Year 13 Multifunctional project



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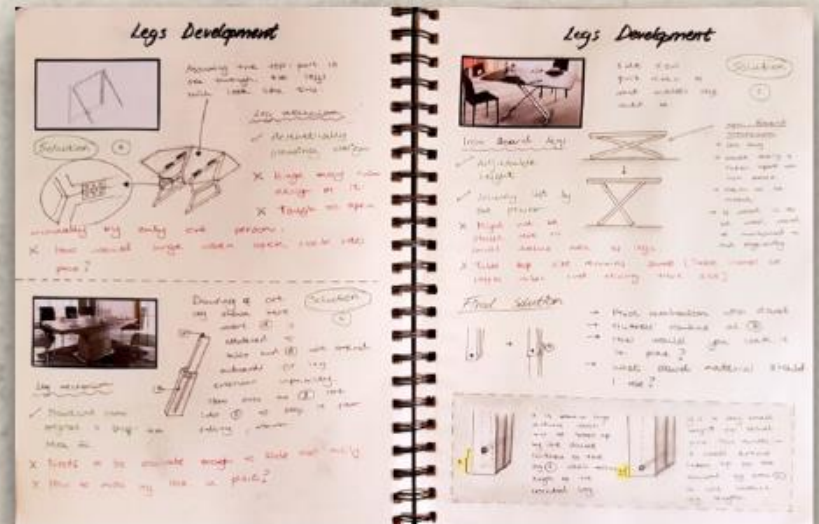
Year 13 Multifunctional product



I then researched and modeled many different leg mechanisms to help extend the table's height to around 80cm.

I finally found a solution using dowels (as shown in the bottom right corner)

After physically making a cardboard model (to half the size of the actual table) I found out the legs are not long enough for the table to be of the ideal dining table height.



Year 13 Multifunctional product

Design Development



DINING TABLE

- Hidden secret storage box as shown top right photo.
- Can secret box be seen from sides?
- Legs may be too short so might need an extender mechanism for each leg.
- May need to model this physically (to scale) to see what other alterations are needed.



COFFEE TABLE

- Legs are able to pull (inwards) to form an cross from the side (bottom left photo).
- Legs are not in the same line but offset by thickness of leg to allow one in front of another.
- Slides fold over using hinges to achieve a flush face.

As the table's main specification point was to be multinational, I decided to draw up each stage of the product on google sketchup.

Then I progressed to physical modelling the table on cardboard to scale.

Size Development

In order to set what size were the best initially, I can make a model to show me the secret compartment size.



cardboard used and painted with the white acrylic.
natural cardboard colour remained when left out.



keychain mechanism used for secret compartment.
→ Small wheels use top piece securely
→ when extended box spins, it about 5cm up.
→ Border of slide-closed wood on the secret compartment lid is missing.

Model is proportional to scale.

Scale 1:2

Model	Dimension	Actual Product	Dimension
x	21cm	2	42cm
y	10cm	y	20cm

Year 13 Multifunctional product

Design Development



2D design on autocad
CAD software.
→ assume dimensions
of 100 & 200mm
→ original design with
angles 135° on each
side.
→ all sides are measured
and drawn accurately.

The autocad drawing above
was imported on google
sketchup and then made
3D.

Secret Compartment

- CAD modelling
drawn precisely
to measure
- design not open
yet
- 3D print size 25 in
mm 7/16 in
to ensure all
parts go into
- further development
of original design
needed
- design changed to
include the hole
the small ring
connecting part

Series of
triangles
that are
at equal
angles.

Flat top is
not going to
be required

hidden walls
is needed
for storage

hidden
mechanism
can be
implemented
to the model



Design Development



Dunk is placed in the
centre for keychain mechanism
to work. May be either
cashed, angle is hard
wood. Edge must not
be too small, this
layer should connect around.

Sketch view goes through
the oblong hole. The
device is fully hidden
and should support the
weight of the wooden
plate, and provide path
for decoration purpose.
Keychain mechanism to be used.



When closed, should look
like a (key). No gaps
or holes in order to
ensure the sides do not
change the design, multiple
parts can be used.

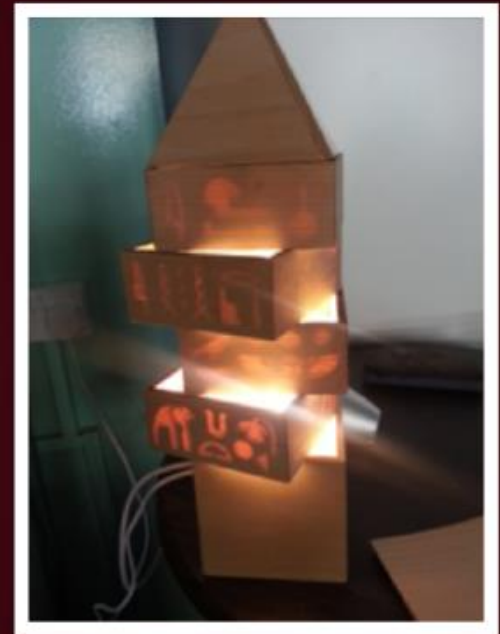
The initial design was
is rectangular on the base.
This system for there
to be good spacing when
opened up fully so there
is space for eight parts
in the shape of rings.
(As shown on sketch)



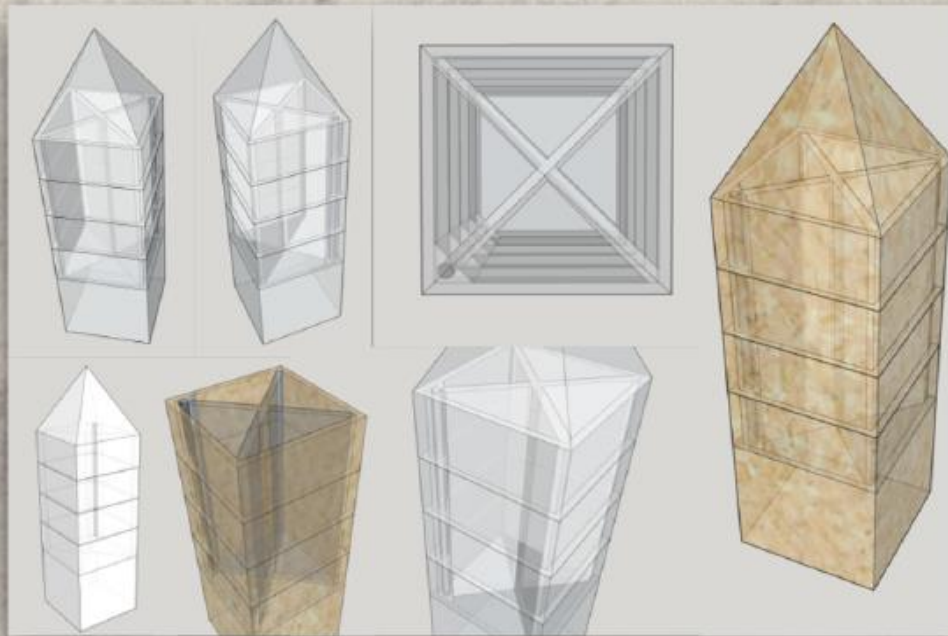
The top left shows
an autocad
sketch of the
final design. I
then progressed to
use google
sketchup to draw
up the product in
3D.

I also drew out
the keychain
mechanism
within my table.

Year 12 Coffee Holder project



Year 12 Coffee Holder project



I decided to develop my final piece through sketch up designs as shown. Finally, I decided to draw out every single hieroglyphic design to see the product's aesthetic appeal with it.

Year 12 Coffee Holder project

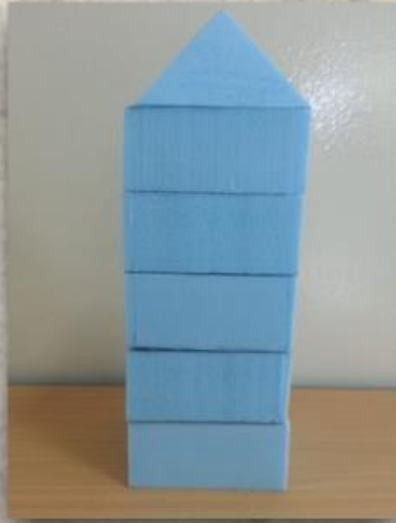


I looked to the buildings of Dubai as inspiration for this idea. I learnt that a building has different aesthetics depending on the time of day. When the sun is up the light reflects off the building material; at night, the windows and glass tints are illuminated from the inside.

I implemented this within my final design to suit the client during the day and night.

The beech veneer was visible during the day as a block of wood. At night, the lights display the hieroglyphic design resembling the Cleopatra tower.

Year 12 Coffee Holder project



The brief was to design a coffee pod holder for a client of my choice.

After sketching initial designs in my sketchbook, I began to develop the design's dowel mechanism through modeling with blue foam.

Within each box, was a half housing joint which divided the square space into equal sized triangles. The coffee pod was able to fit securely within each triangle. This allowed for 16 coffee capsules to be held within the product.

Due to my client being from Egypt, I decided to develop ideas that he would like.



Year 11 Trophy project



My brief was to design a trophy which embodies the theme sustainability and promotes an environmentally friendly message.

After sketching many initial designs and development, I decided to model my final product on Google sketchup.

My final product has the earth and leaf form on both sides. (which were both cut out on the laser cutter) The wooden base was cut manually and the title of the trophy was etched around it. I also casted the pewter disc on the base.



Other Art pieces



Year 11 Ballet project



I then looked at the artist Anselm Kiefer.

I implemented the manner in which he manipulates material into art and did studies to practice as shown in the top left.

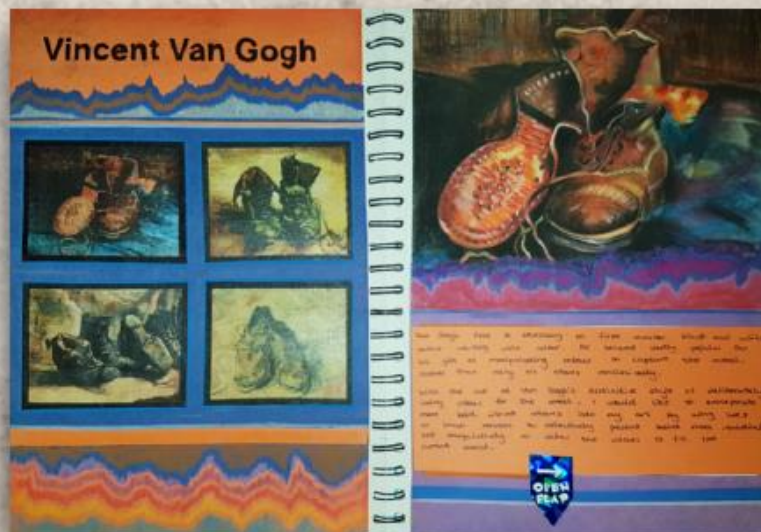


I then looked to develop background ideas for my final piece.

Finally, I painted the image on the right as my final piece.



Year 11 Ballet project



I wanted to add colour to my images so I studied the artist Vincent Van Gogh.

The top left shows a study I did in soft pastel pencils from one of his pieces.

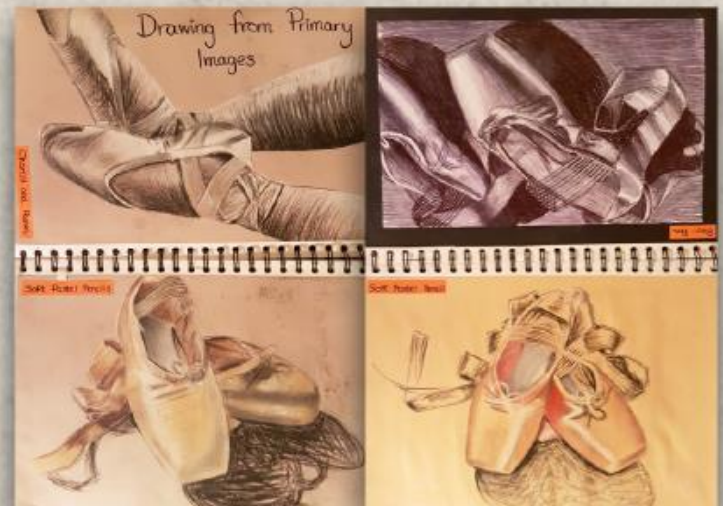
*I then implemented colour within my art.
I drew many studies from my primary images using his technique of bold bright colors.
I practiced that realistic yet messy application of colour.*



Year 11 Ballet project



Edgar Degas was the first artist I studied. I used his technique to draw ballet shoes with pen, charcoal, and soft pastel pencils.



I then took many primary photos and sketched with Degas' style using pencil. I drew the same image in different time intervals.



Year 11 Lamp project



I decided to explore messy techniques of painting as done by Leonid Afremov. I developed my skills to manipulate colour like him through practice.

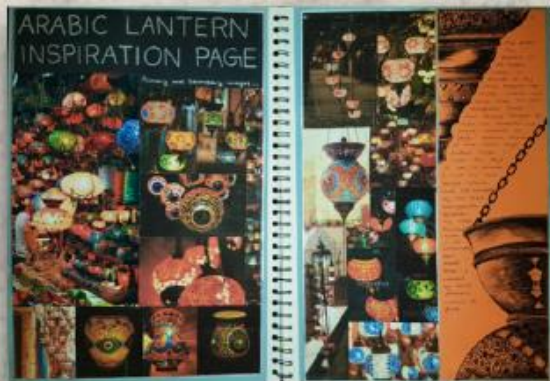


After practicing using a knife for painting, I drew from my own images.

The right shows my final piece (size A1) which was done entirely with a knife and acrylic.



Year 11 Lamp project



I began this topic with an inspiration page filled with primary and secondary images.

Then I chose an artist to direct the style of my art. The Top left of the Pieter Claesz artist page is a study I did with watered down acrylic.



After development of colour, the right shows my final piece.



Portfolio

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