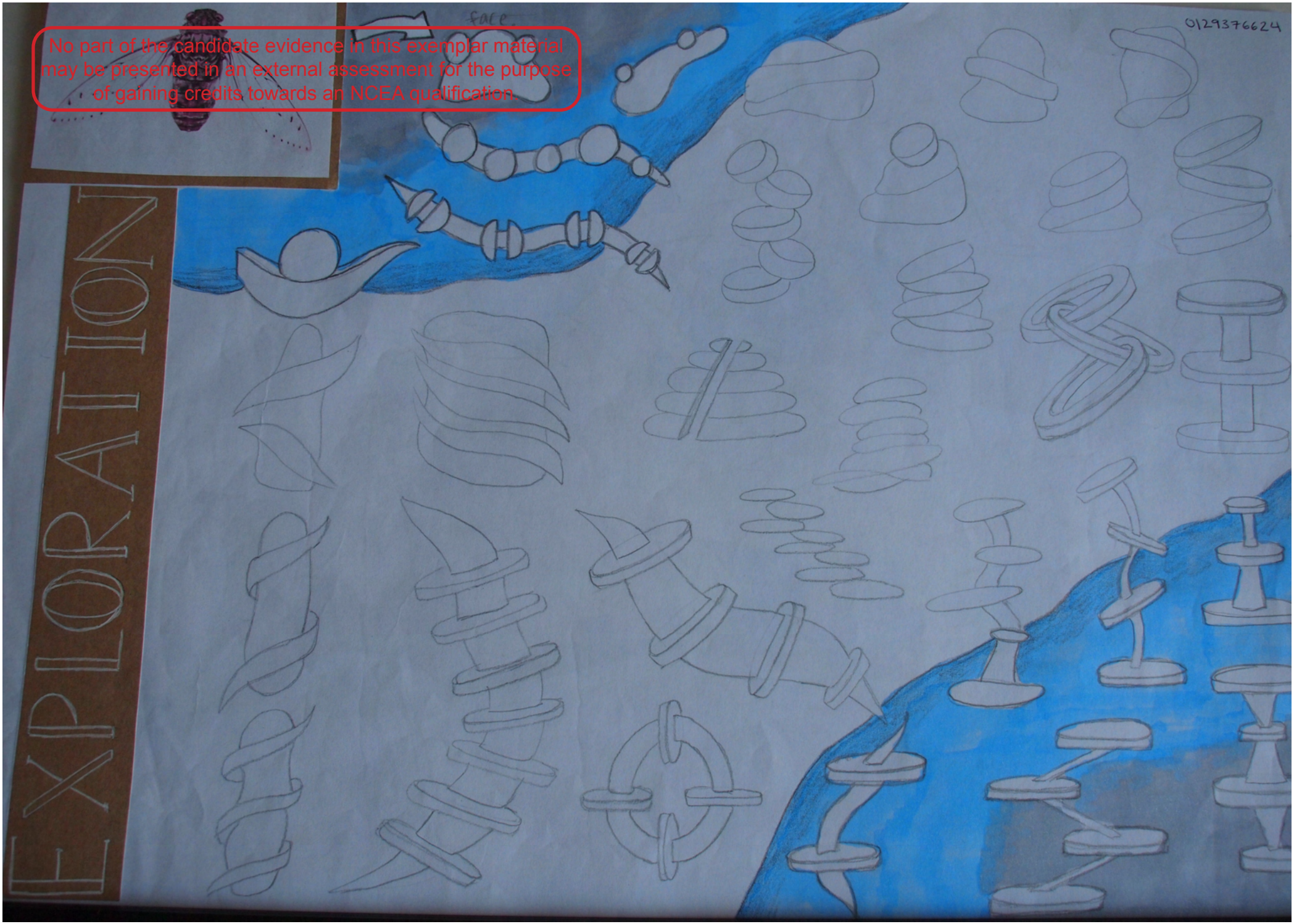
No part of the candidate evidence in this exemplar material may be presented in an external assessment for the purpose of gaining credits towards an NCEA qualification.



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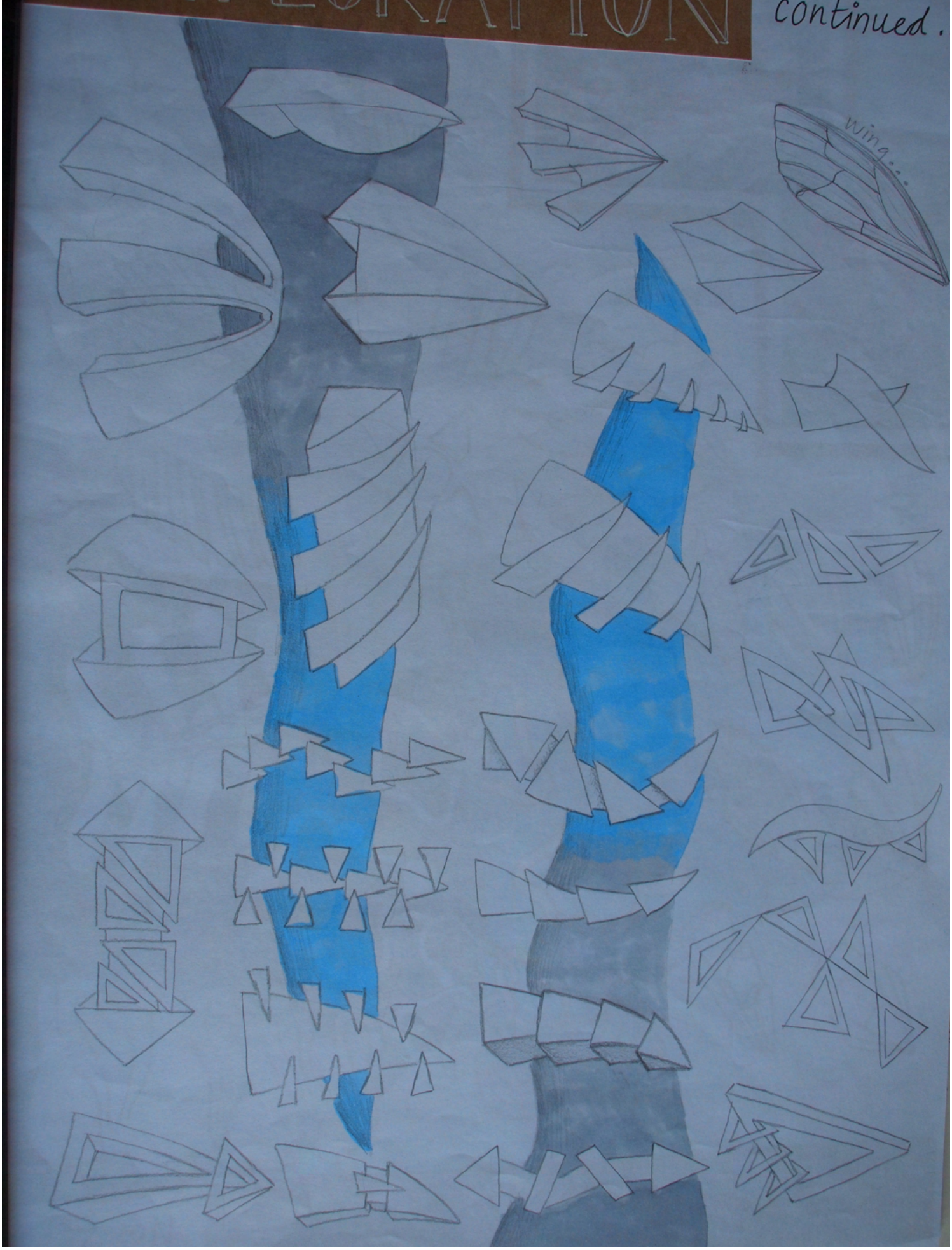
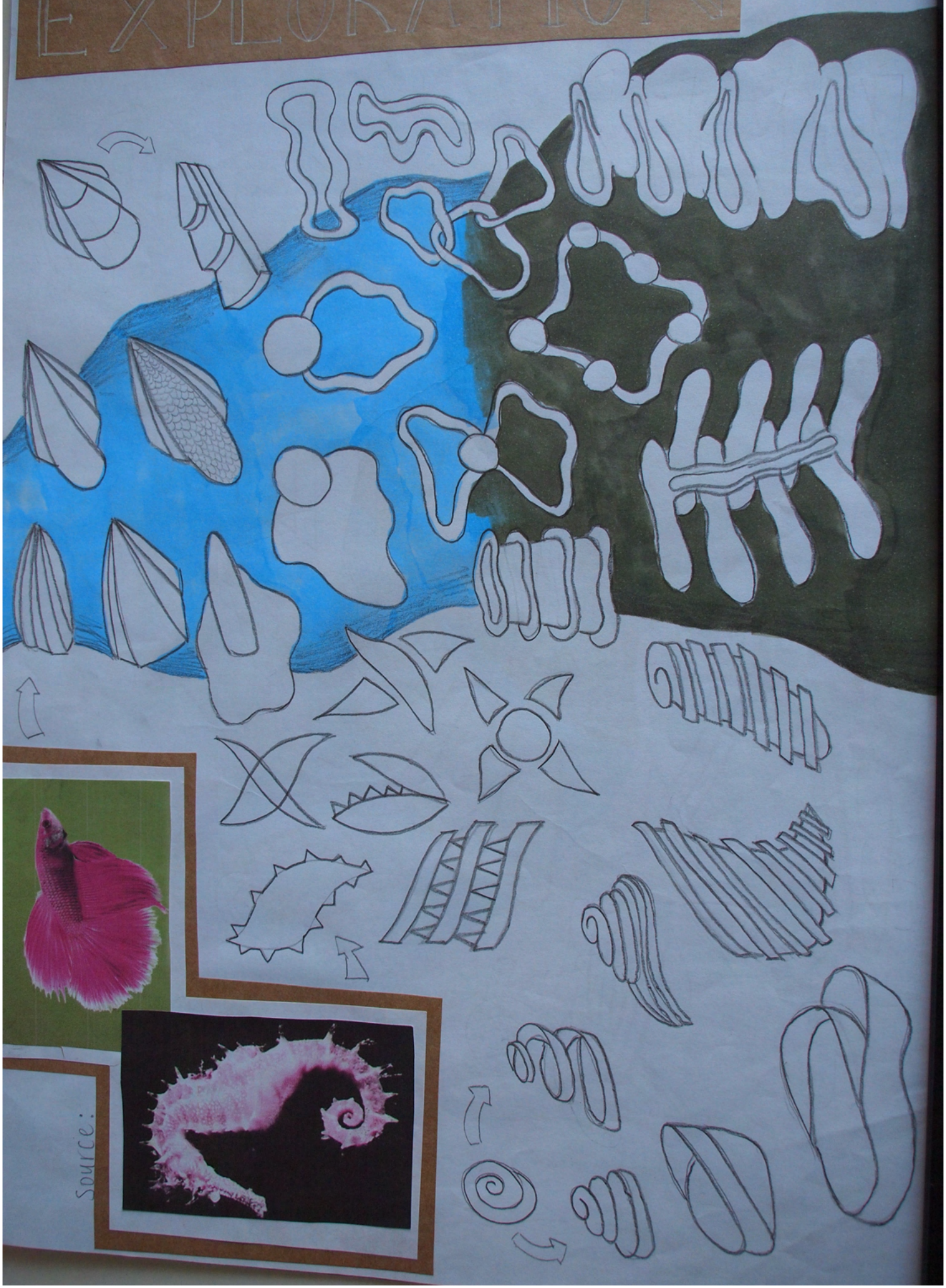


EXPLORATION

No. 2



EXPLORATION

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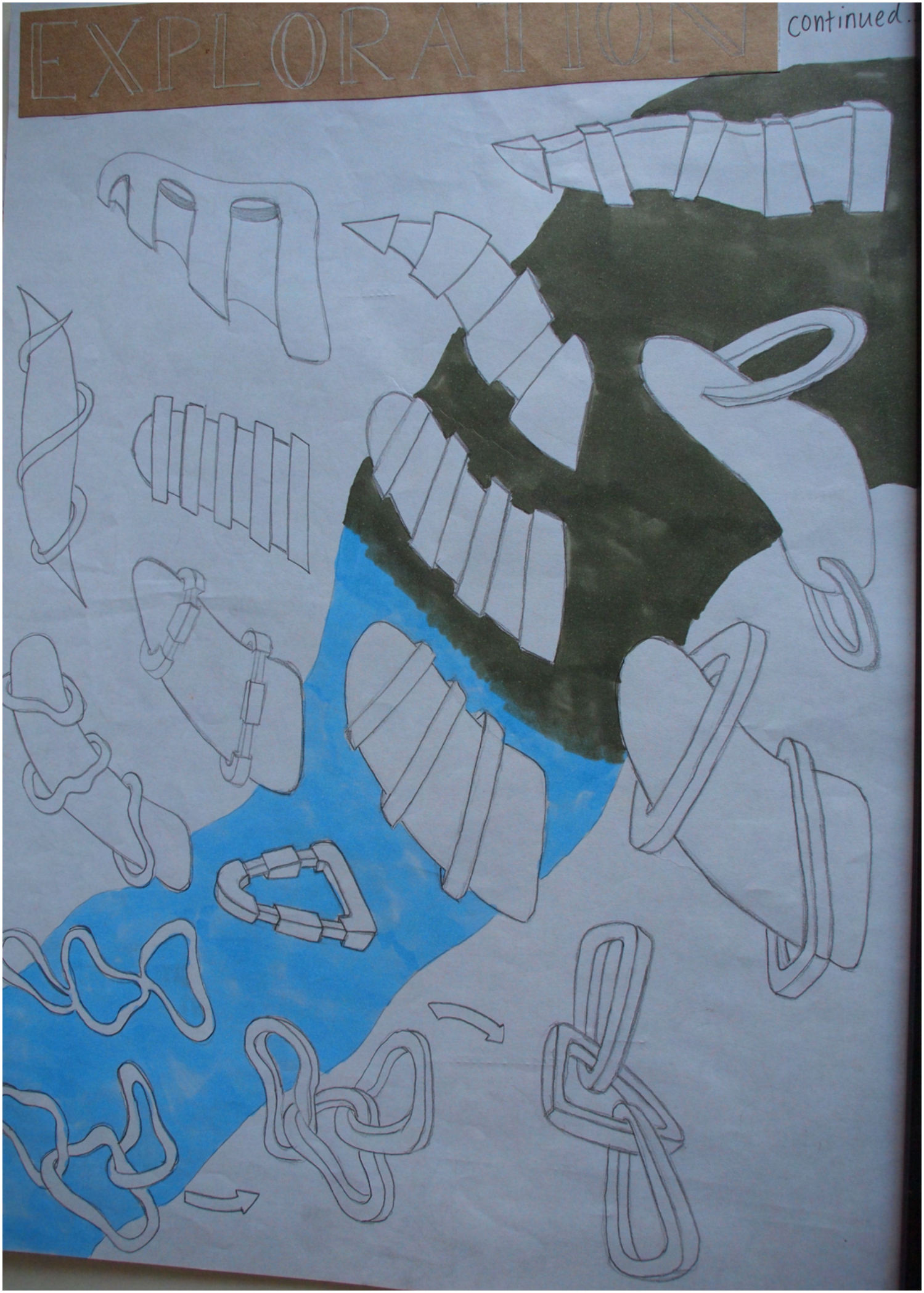
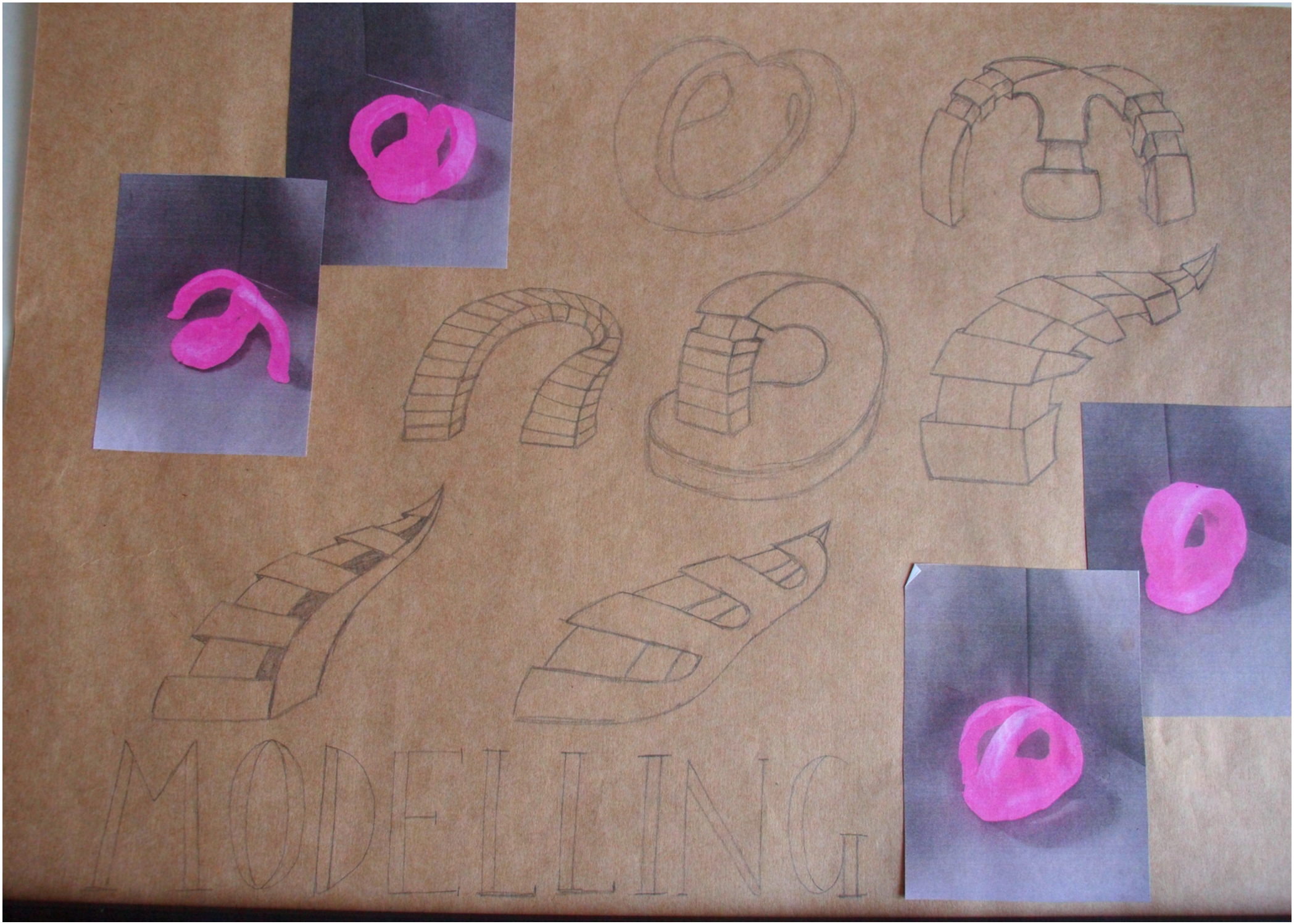
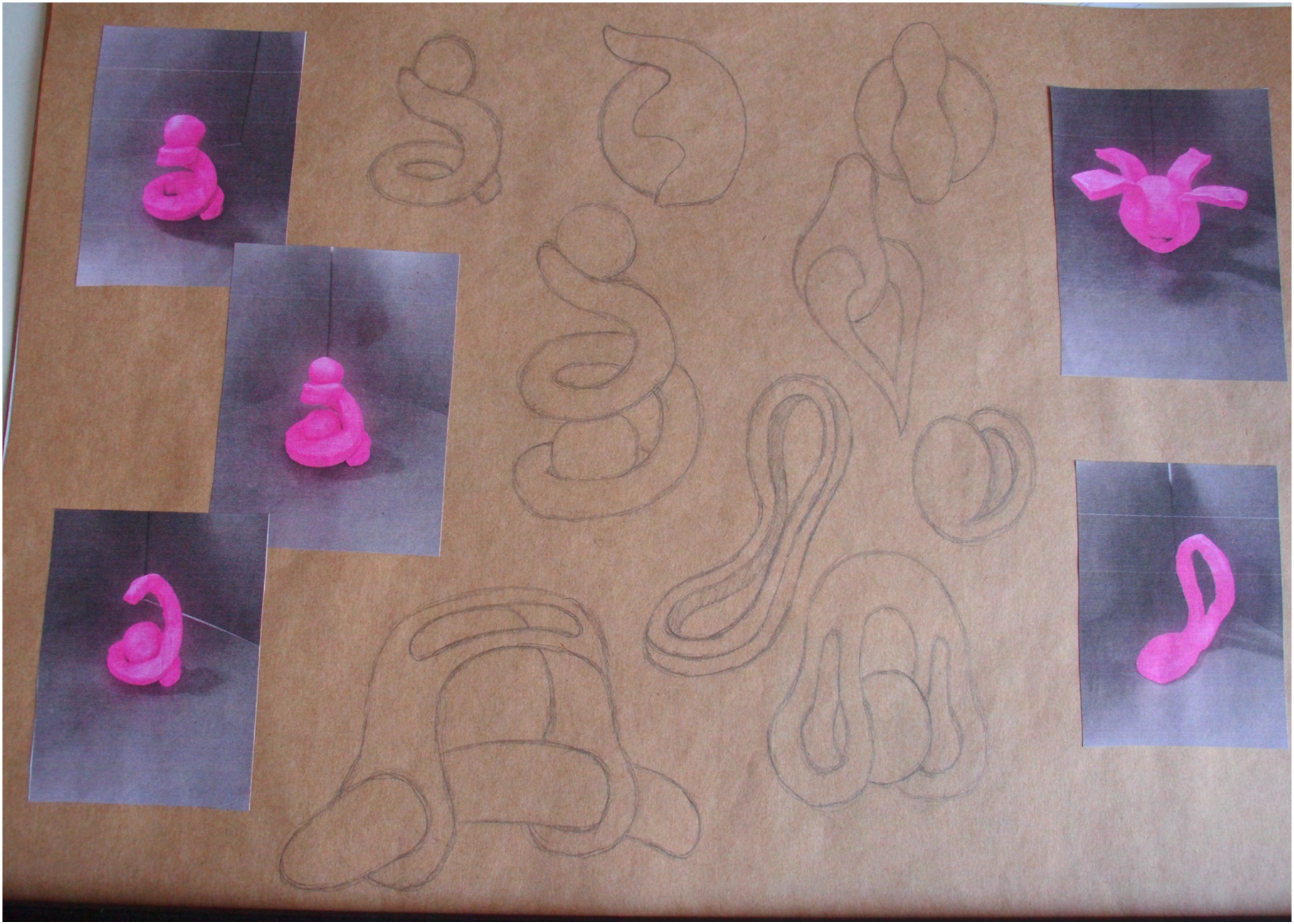


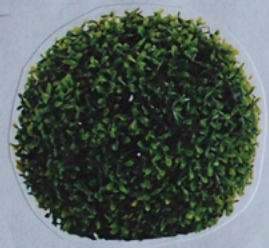

MODELING



GARDEN light

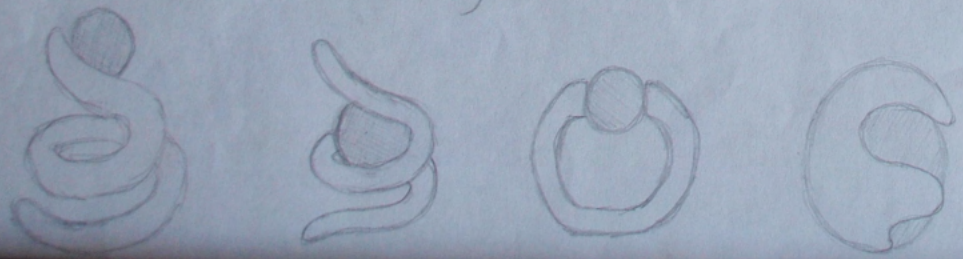
THINGS TO CONSIDER:

- Weather conditions (rain, wind, sunlight, moonlight)
- Solar power (power the light, automatic power on and off)
- water element (water feature as well as light feature)
- activation when in contact with sunlight/moonlight
- small/multiple lights or one major garden light feature



OPTIONS:

- bush light (within the garden)
- entrance/outdoor walkway light
- fountain/feature with light within it
- light feature
- outdoor table light

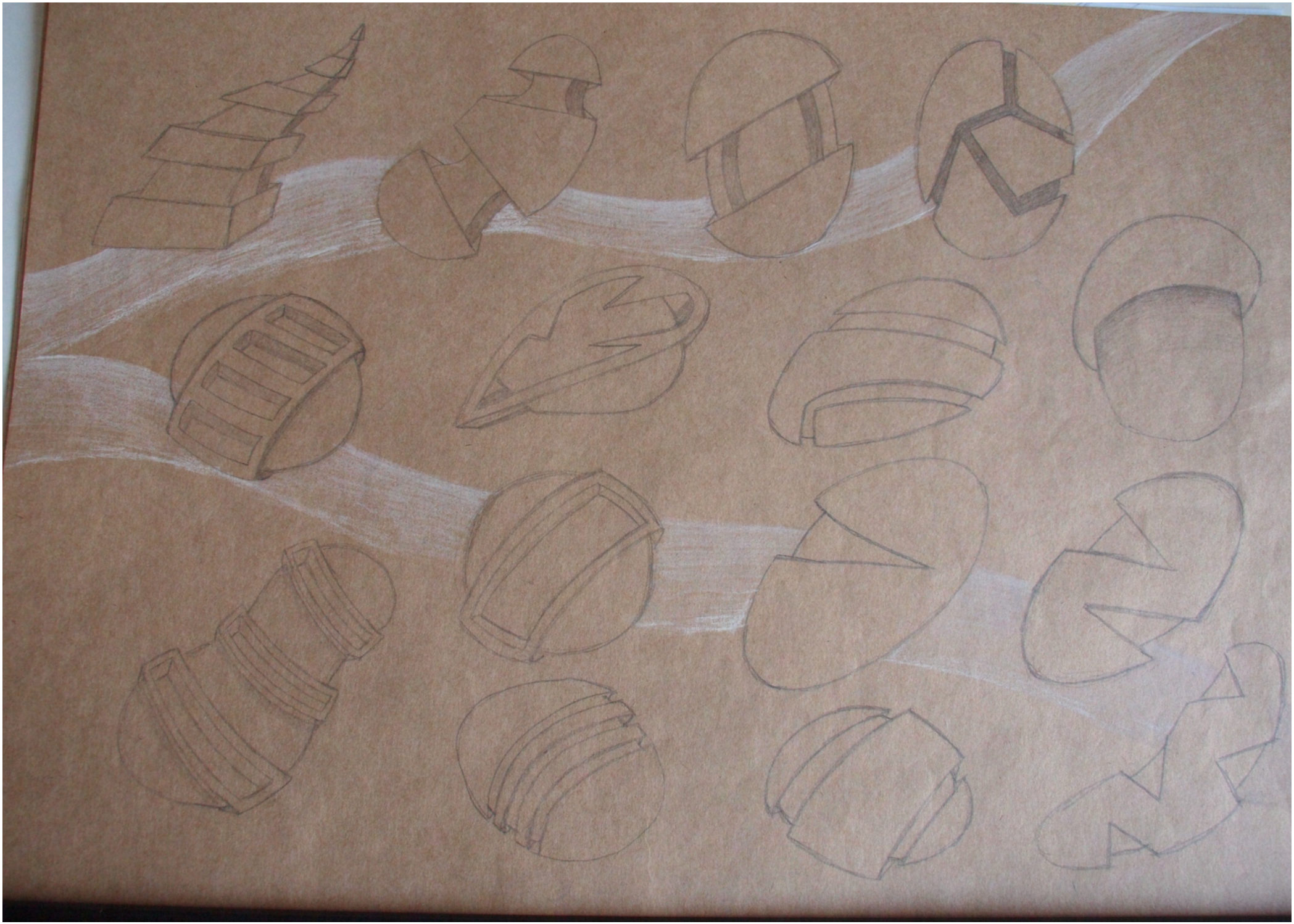


USES:

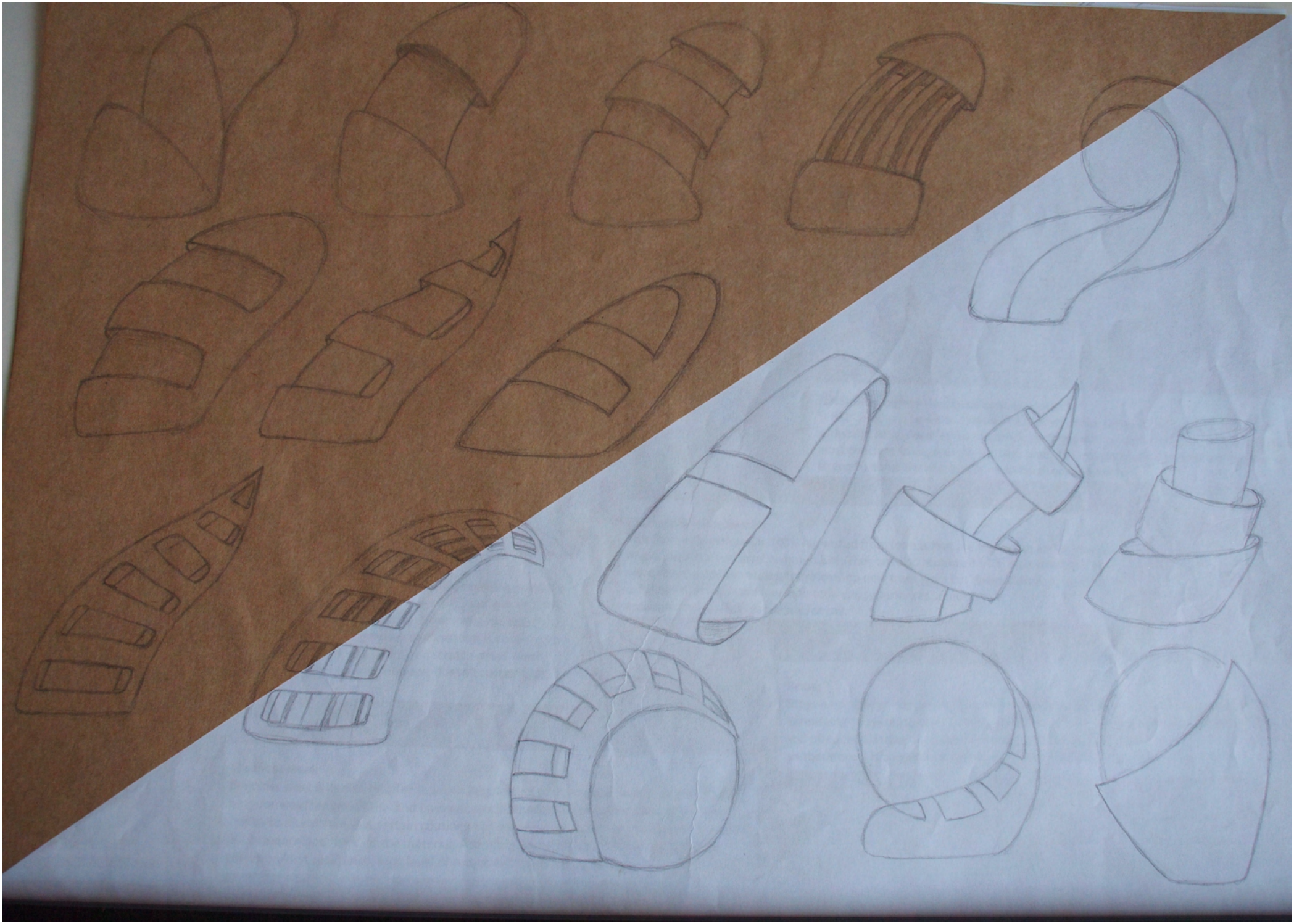
- light up outdoor pathways
- be an eye-catching garden feature
- light up entrances/driveways
- more interesting addition to garden layout

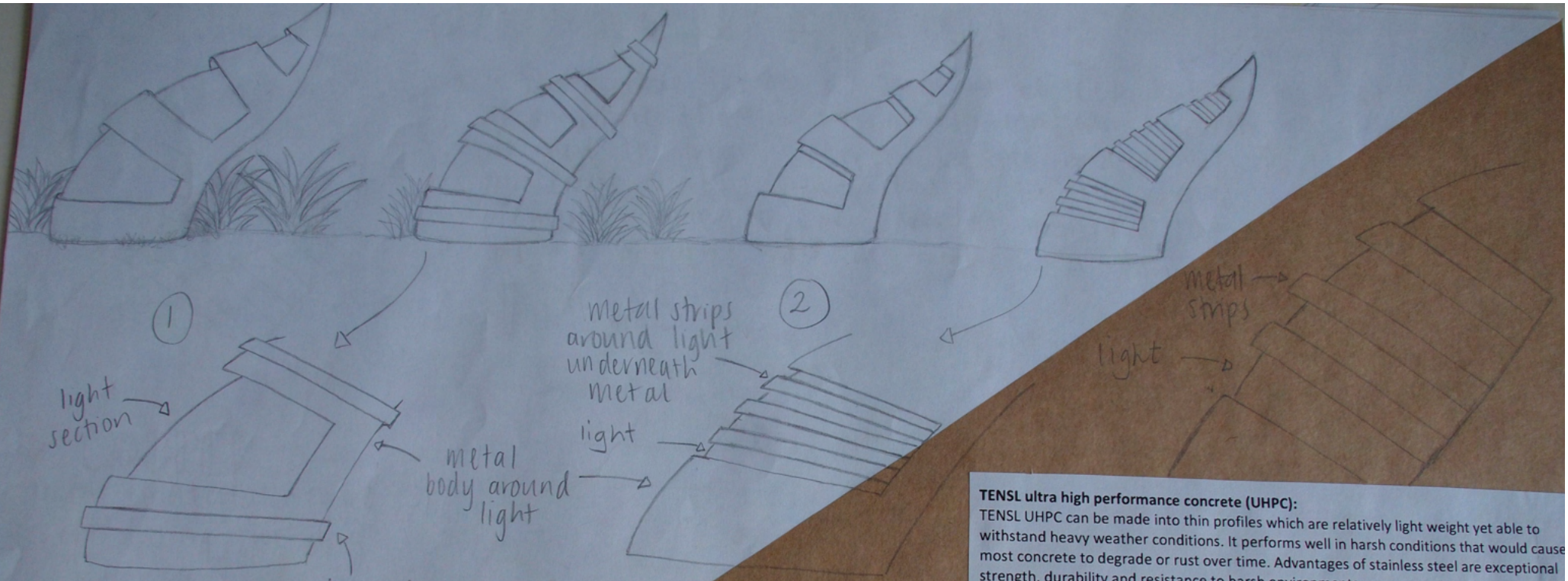
CONS:

- style must fit garden
- expensive to run
- safety hazard
- could be distracting if too bright
- if lightweight could be stolen
- risk of leaving it on over night → wastes power/money



FURTHER DEVELOPMENT





TENSL ultra high performance concrete (UHPC):
TENSL UHPC can be made into thin profiles which are relatively light weight yet able to withstand heavy weather conditions. It performs well in harsh conditions that would cause most concrete to degrade or rust over time. Advantages of stainless steel are exceptional strength, durability and resistance to harsh environments.

FSC-certified hardwoods:
This form of hardwood is 100% harvested from forests that are legally run and are socially responsible to their local communities. They are also reclaimed from built structures that were demolished or retired, therefore, no new trees were cut down. Advantages of FSC-certifies hardwoods are low maintenance, superior resistance to moisture/insects/fire/vandalism/decay.

Aluminium:
Aluminium is considered to be an ideal material for outdoor sculptures or furniture and is a fraction of the price of other materials like brass or bronze. It can be left outdoors and will be fine for approximately 50 years but there is a higher chance of it surviving the weather conditions if it was coated or anodized. Especially powder coated aluminium is known as a great choice for outdoor use due to its highly weather resistant and scratch-proof finish. Advantages of aluminium are being lightweight, recyclable, durable, doesn't rust or fade, is low maintenance and affordable.

Brass:
Brass is an alloy of copper and zinc that is highly resistant to corrosion and rusting. It is also considered to be reasonably priced and is known to be very durable and high quality. Brass will often turn darker over time if it is exposed to the elements but it will not corrode or rust so therefore it is considered a great option for outdoor sculptures and lighting.

Stainless steel:
Stainless steel is known to offer superior long lasting performance even in demanding outdoor weather conditions and environments. Stainless steel can be used on its own, similar to aluminium, but certain coatings or finishes would increase the durability, overall performance and 'look' of the material. Advantages of stainless steel are exceptional corrosion/rust resistance, high level of recyclability and a long lifecycle.

urces:
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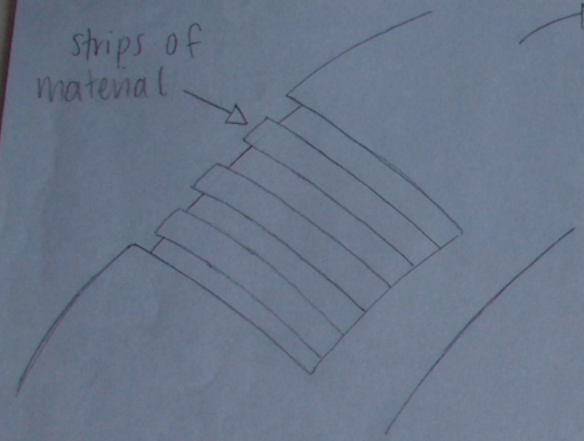
ww.monroeengineering.com

⇒Functional

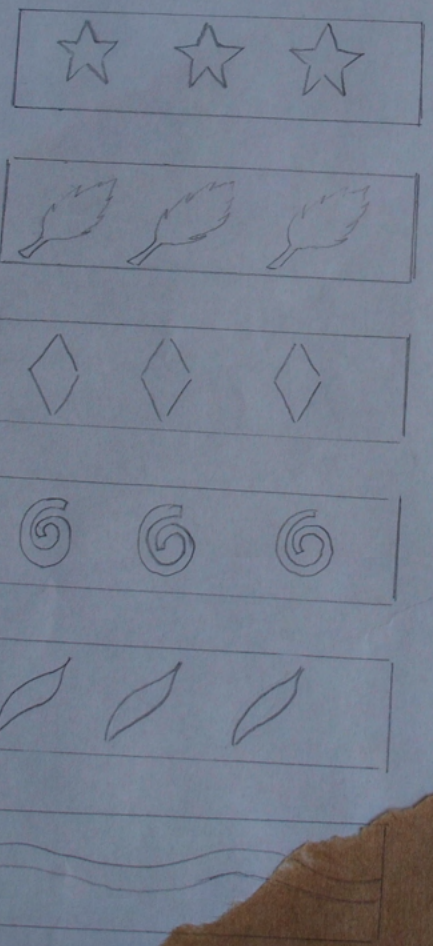
MATERIALS

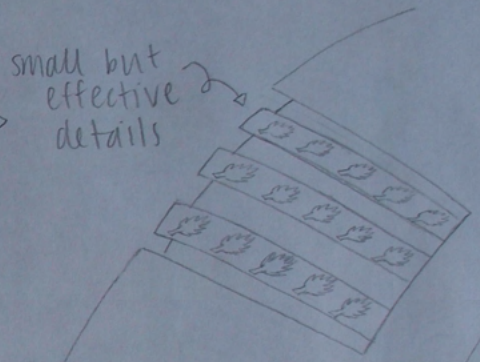
DETAILS DEVELOPMENT



In the daytime, the whole design can be seen, but at nightime, only the areas where the light shines through can be seen. Therefore, I have decided to trial different shapes and forms with the strips of material that sit over the light to create an aesthetically pleasing display to be seen at night (as this design is clasified as a garden light as well as a light feature).

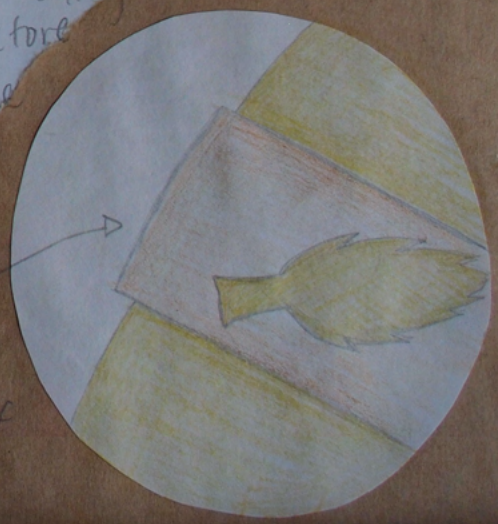
IDEAS:





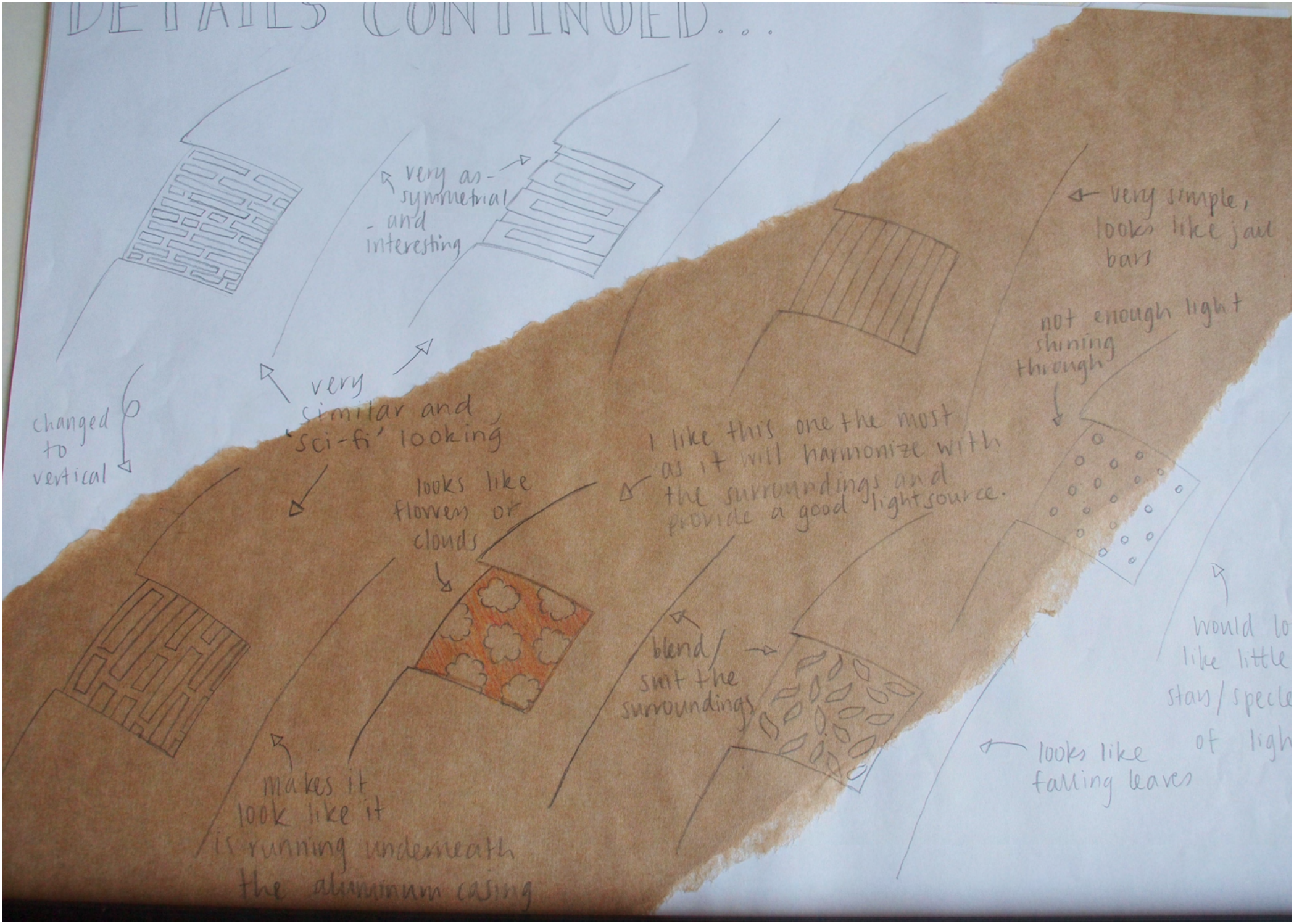
COPPER is a great material to be seen during the day as it has beautiful colours within it that looks expensive and luxurious. In addition to this, it can also be bent and cut into certain shapes etc which is ideal for my design.

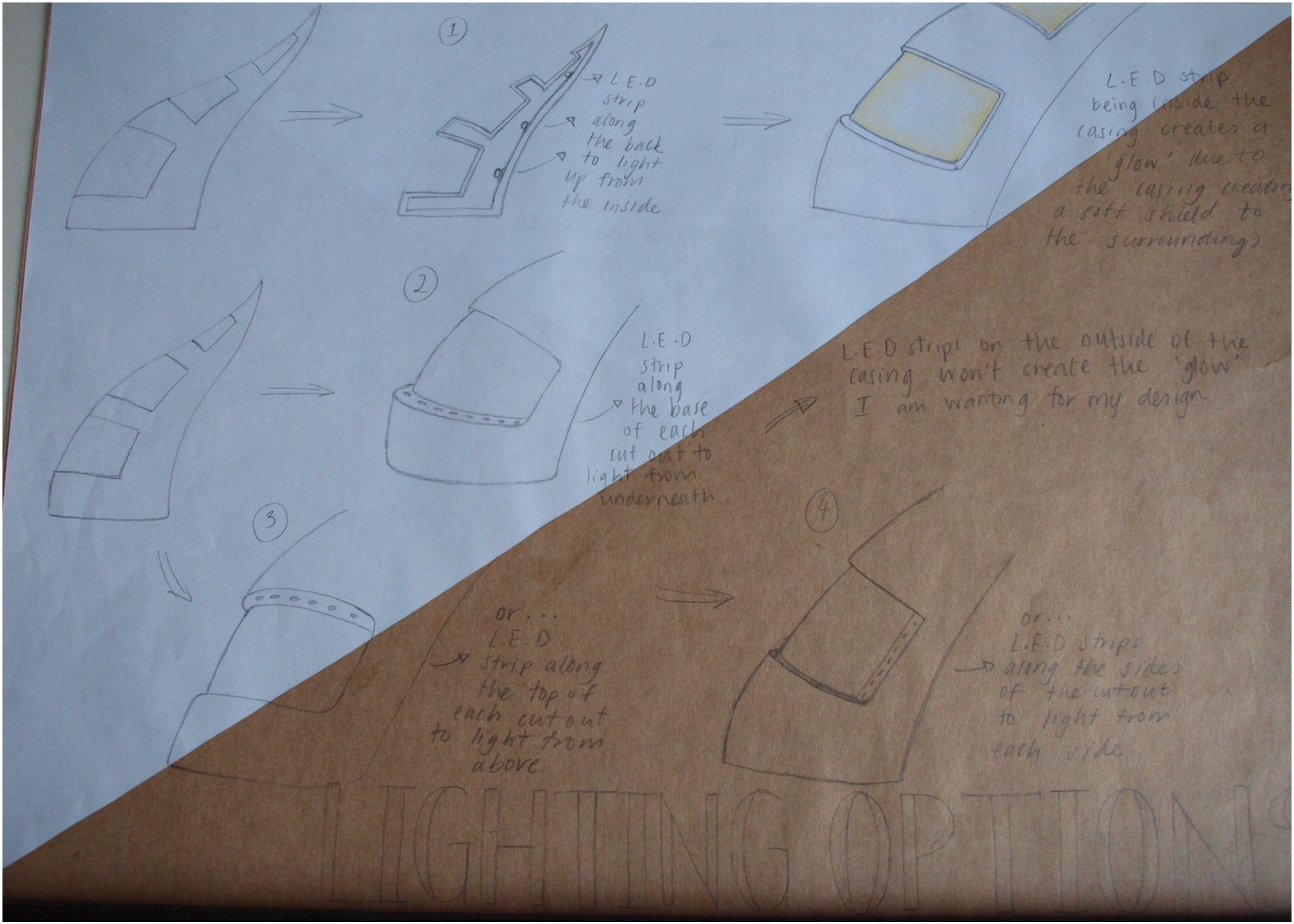
The buyer could decide what detailing they want before purchasing the design.



light shining through leaf cut out

DETAILS CONTINUED...

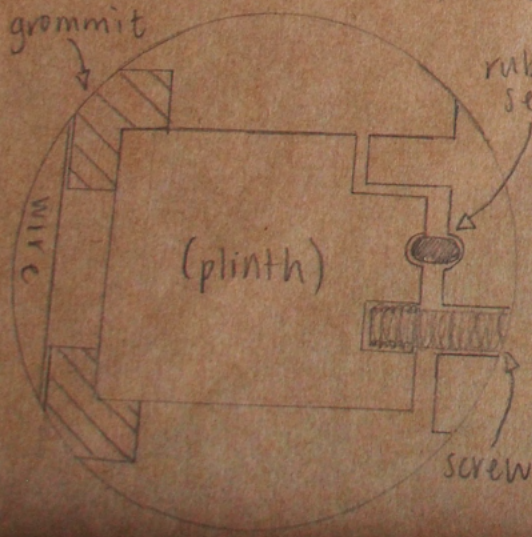


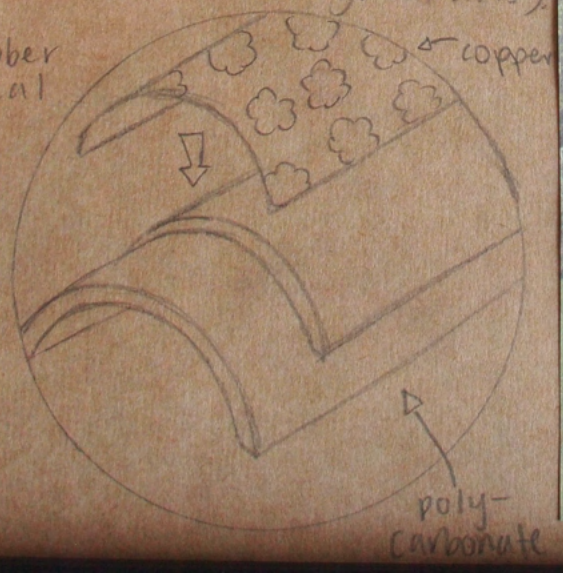

1
L.E.D strip along the back to light up from the inside
L.E.D strip being inside the casing creates a 'glow' due to the casing creating a soft shield to the surroundings
2
L.E.D strip along the base of each cut out to light from underneath
L.E.D strips on the outside of the casing won't create the 'glow' I am wanting for my design
3
or... L.E.D strip along the top of each cut out to light from above
4
or... L.E.D strips along the sides of the cutout to light from each side
LIGHTING OPTIONS

I believe my design meets the brief of creating a garden light that acts as a feature as well as being able to illuminate an outdoor area.

My design has done this by:

- The powder coated aluminium and copper have been selected as they both are durable and long-lasting.
- My design is aesthetically pleasing as the aluminium and copper harmonize with each other effectively as well as being a satisfying contrast to the garden surroundings.
- it is connected to the house electricity allowing the users to turn the lights on and off whenever they please.
- it has a modern, free-flowing style that looks like it is rising from the ground like a plant.
- it is waterproof with water resistant materials and water tight securites (using silicon sealant, rubber seals and grommits).





Assessment Schedule – 2019

Design and Visual Communication: Initiate design ideas through exploration (91627)

Achievement Criteria

Overall level of attainment for 91627	Achievement	Achievement with Merit	Achievement with Excellence
A	*Initiate design ideas through exploration.*	*Initiate design ideas through **insightful** exploration.*	*Initiate design ideas through **extensive** exploration.*

Evidence

Not Achieved	Achievement	Merit	Excellence
No source is material evident. Source material is not interpreted using visual communication strategies or taken into alternatives and variations. Design ideas are not derived from the alternatives and variations.	Use an **experience**(s) to generate **starting ideas**; using visual communication strategies to **interrogate and re-generate** ideas towards **design ideas**. Inspirational sources (**experiences**) are present. These could include mood / inspiration boards, compilation of images, collage, designer studies, modelling, observational drawing, photographs, etc. From inspirational sources, visual communication strategies are used to experiment, play and manipulate shape (2D) and form (3D), exploring **alternatives** and **variations** to generate **starting ideas** • **Alternatives** are distinct, different, contrasting or have divergent shapes / forms. • **Variations** are adaptations, alterations and modified versions of a shape / form. Alternatives and variations are visually **interrogated and re-generated** which lead towards **design ideas**. • **Interrogated and re-generated** refer to the thinking and visual communication of shapes / forms that are re-examined / critiqued, selected, and re-drawn. • **Design ideas** must have identifiable functional and aesthetic qualities.	Use visual communication strategies to analyse and identify an **emerging train of thought** and **re-interpret ideas** to form design ideas. Through the **reinterpretation** of design ideas an **emergent train of thought** is evident. • **Reinterpretation** of design ideas is applying thinking and visual communication that is purposeful and meaningful in its connection to its context. • **Emerging train of thought** is where a theme is developing with a perspective (viewpoint) and direction (intention) in either a functional / aesthetic / contextual or thematic way.	Use visual communication strategies to challenge thinking and **extend and transform ideas** to form design ideas. The train of thought of design thinking is **further extended / transformed**, which challenges and / or moves beyond the predictable design idea. • **Transform ideas** means the design idea has been seen in a new way.

Note: Visual communication strategies may include but are not limited to: abstraction, recombination, repetition, rotation, reflection, simplification, de-construction, truncation, exaggeration.

Achievement Exemplar 2019

Subject	Design and Visual Communication	Standard	91627	Overall grade	A

Annotation

Pages 1–6 explores variations of forms and shapes that have been isolated and broken down and reassembled from starting sources of three animals. Some modelling is used to extend design thinking into 3D forms. Page 7 introduces context of a garden light. Pages 8–16 continues to re-generate and examine shapes and forms and how the garden light can be integrated to emerge as a design idea. This submission is Achievement. The visual communication of the identifiable aesthetic qualities of the design idea and the design in its entire form are not communicated clearly. The design idea is resolved early and has a focus on repetitive surface elements. It does not show re-interpretation of design ideas that are needed for Merit in connection to function, aesthetic, and context.