No part of the candidate's evidence in this exemplar material may be presented in an external assessment for the purpose of gaining an NZQA qualification or award.



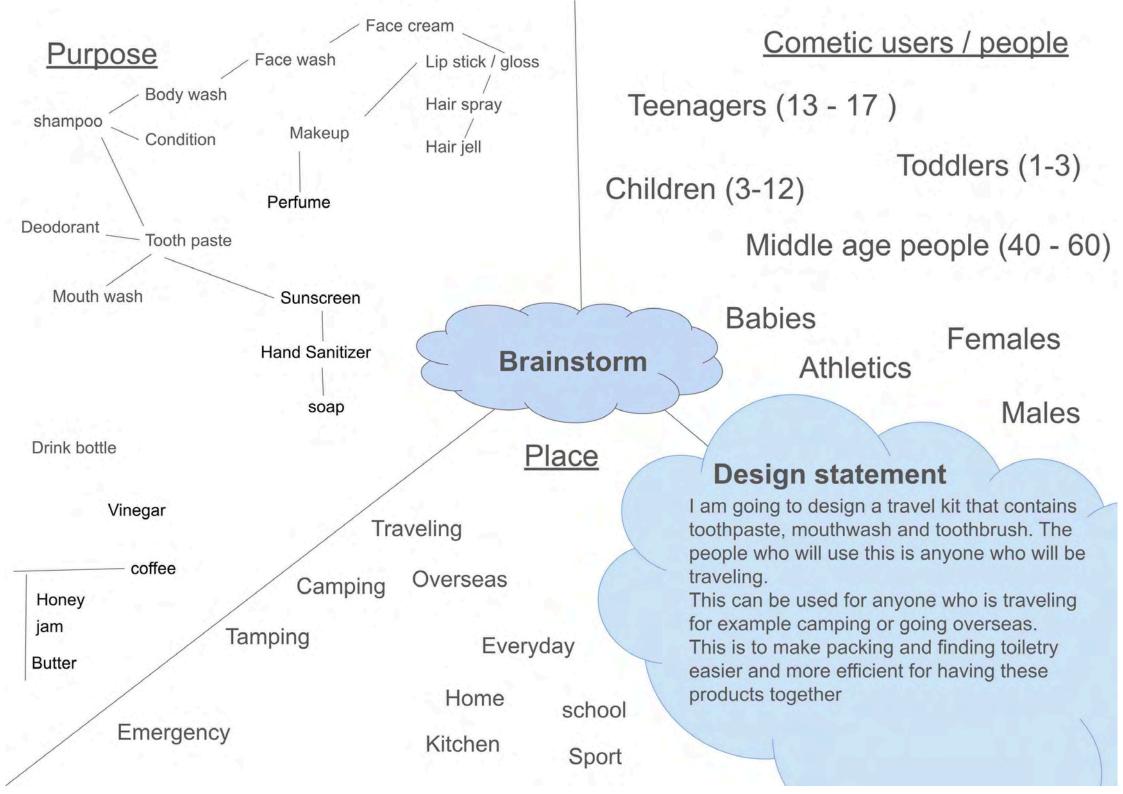
Level 1 Design and Visual Communication 2024

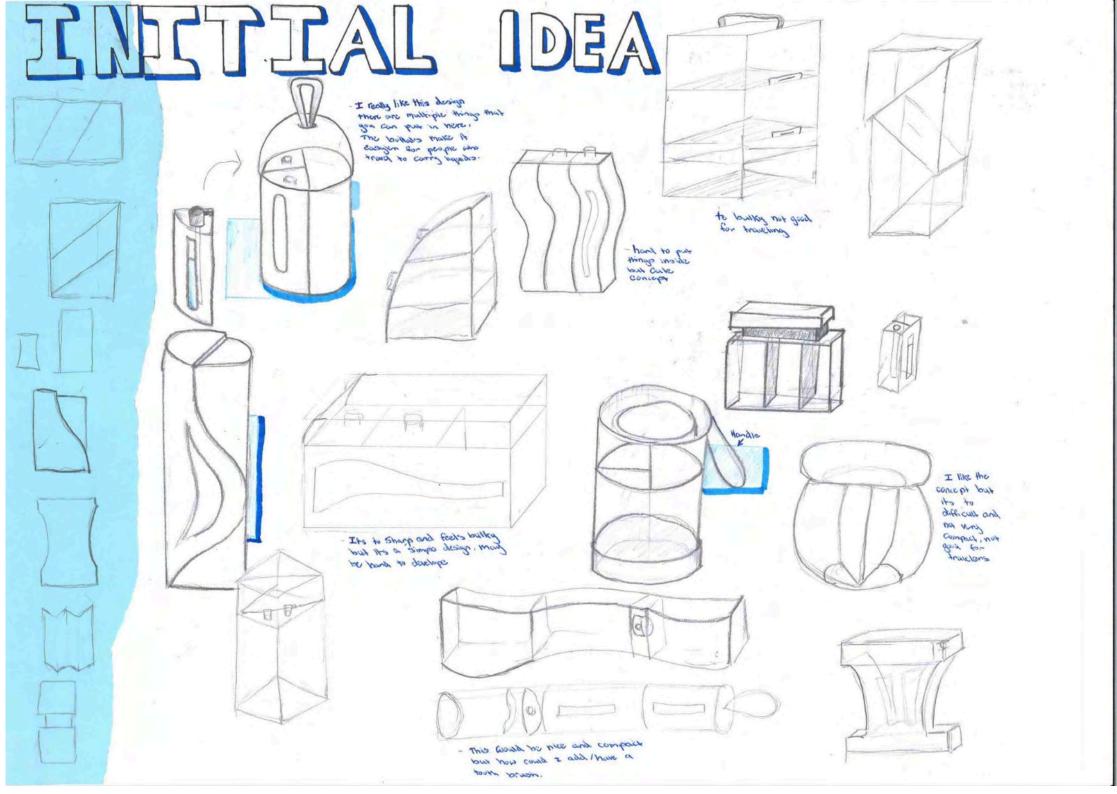
92002 Develop product or spatial design ideas informed by the consideration of people

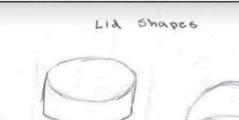
EXEMPLAR – PRODUCT DESIGN

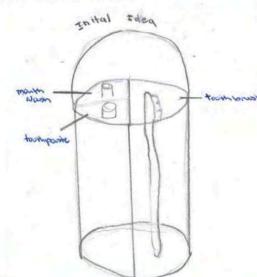
Excellence

TOTAL 08

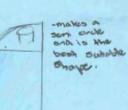








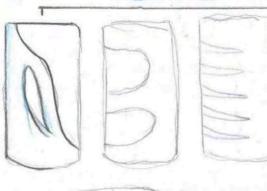
GANS IT CONDID GO TOGETHER

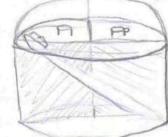




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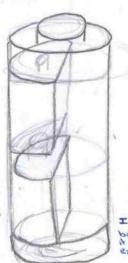
This would be very around to to get the top one out yest to get the account one out.





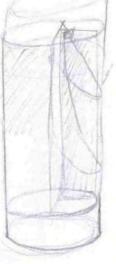
stackable

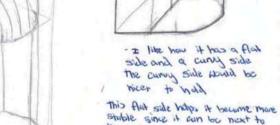
this is the most state from others or proper of the visual property from routing from the track that the conference and the company from the state conference and the conference and the conference of the confere



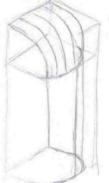
I like those 2 sed on semised water e me flow box

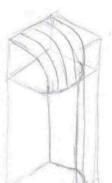
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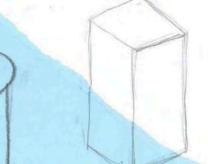


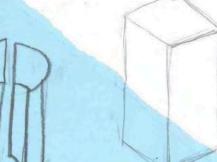


HOW SH



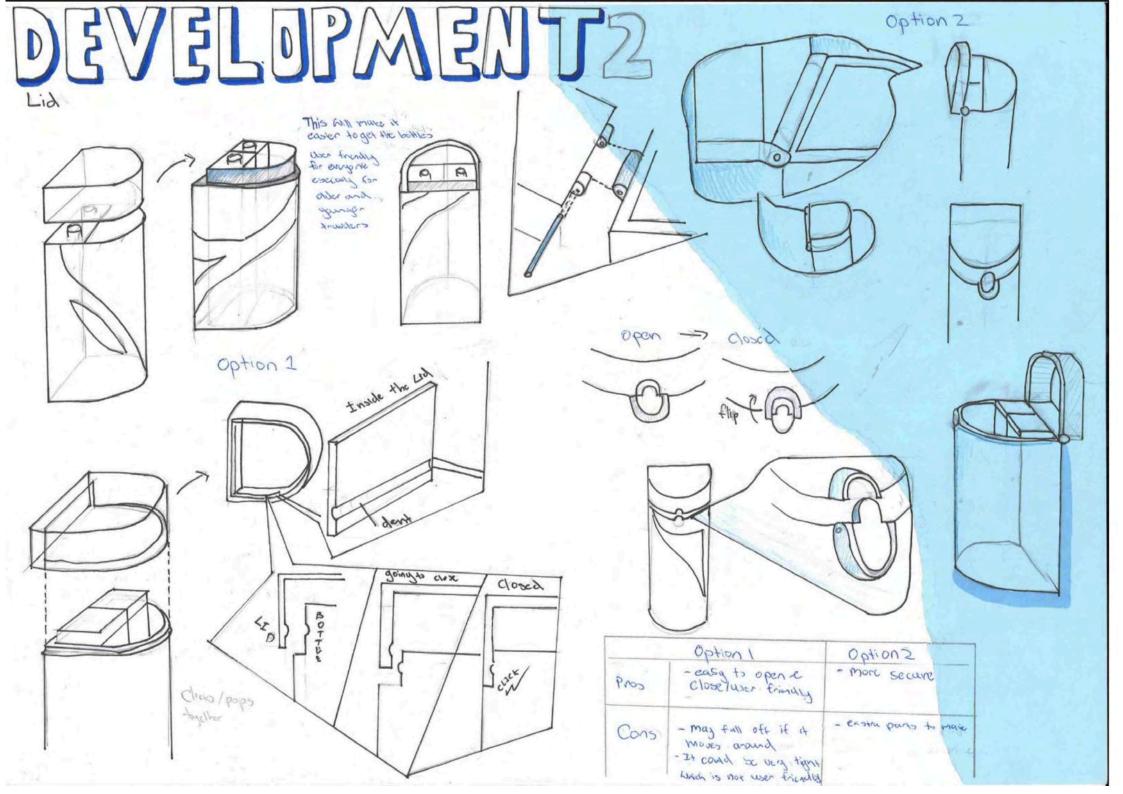


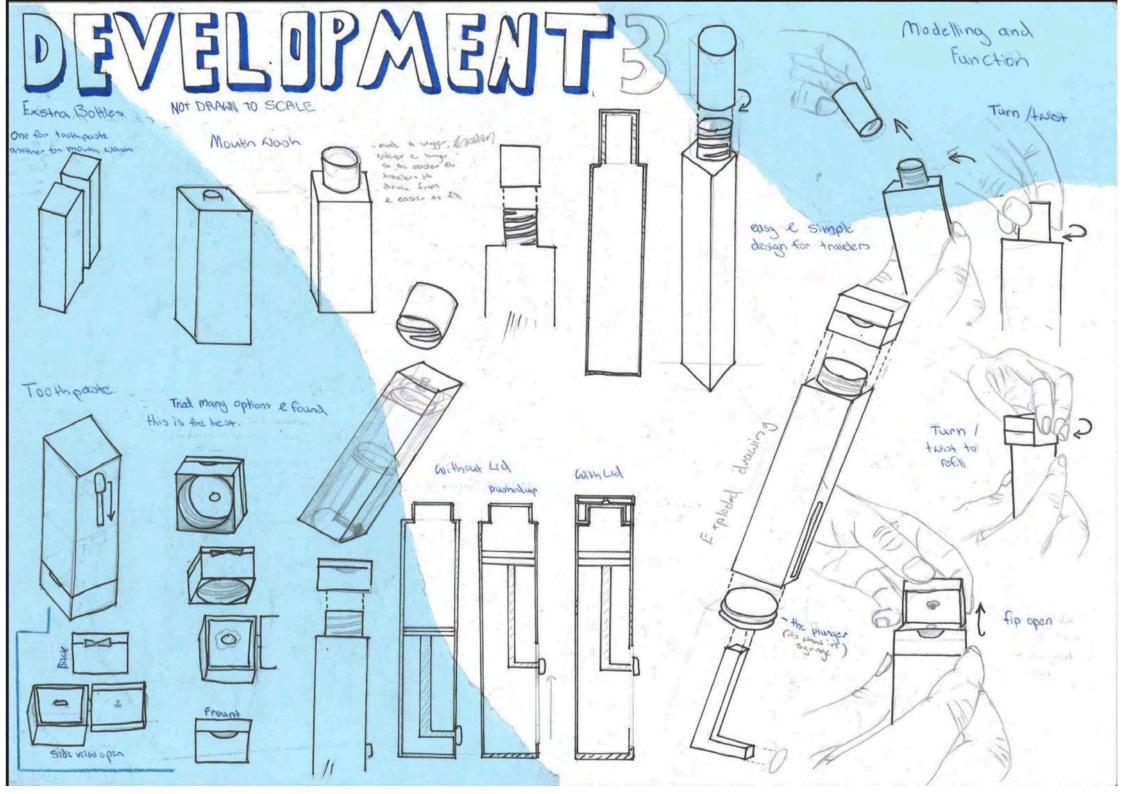




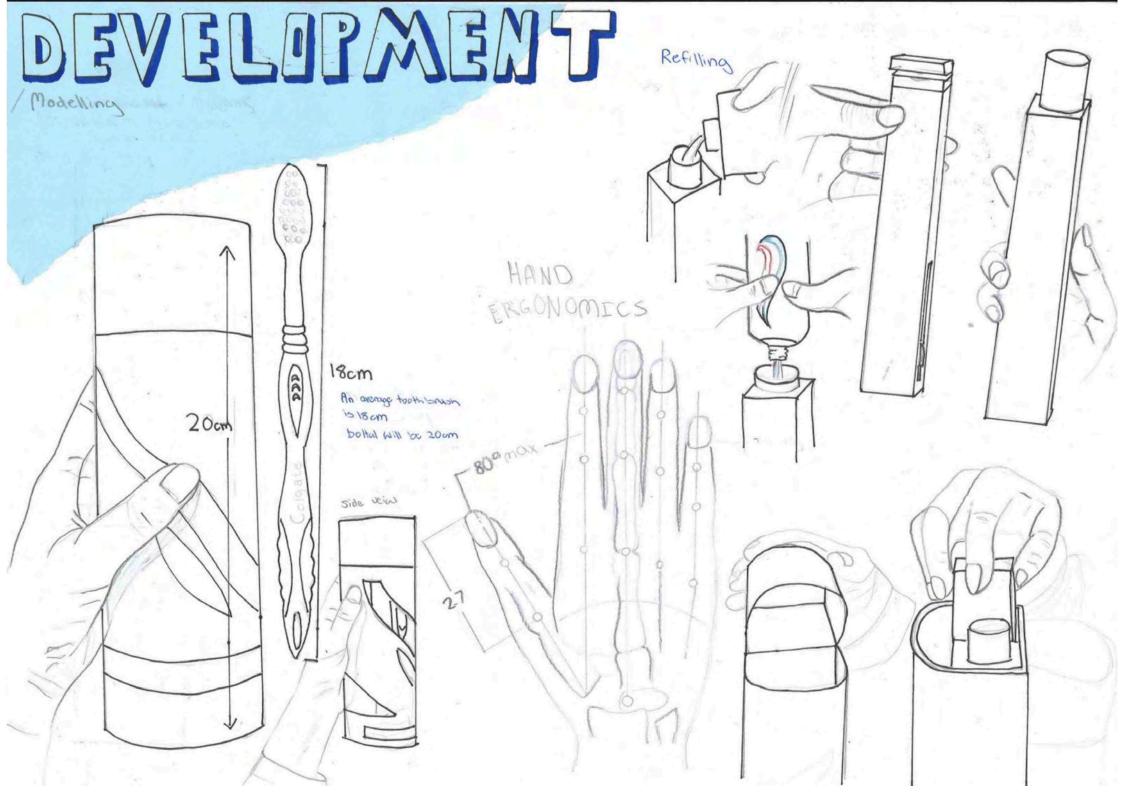


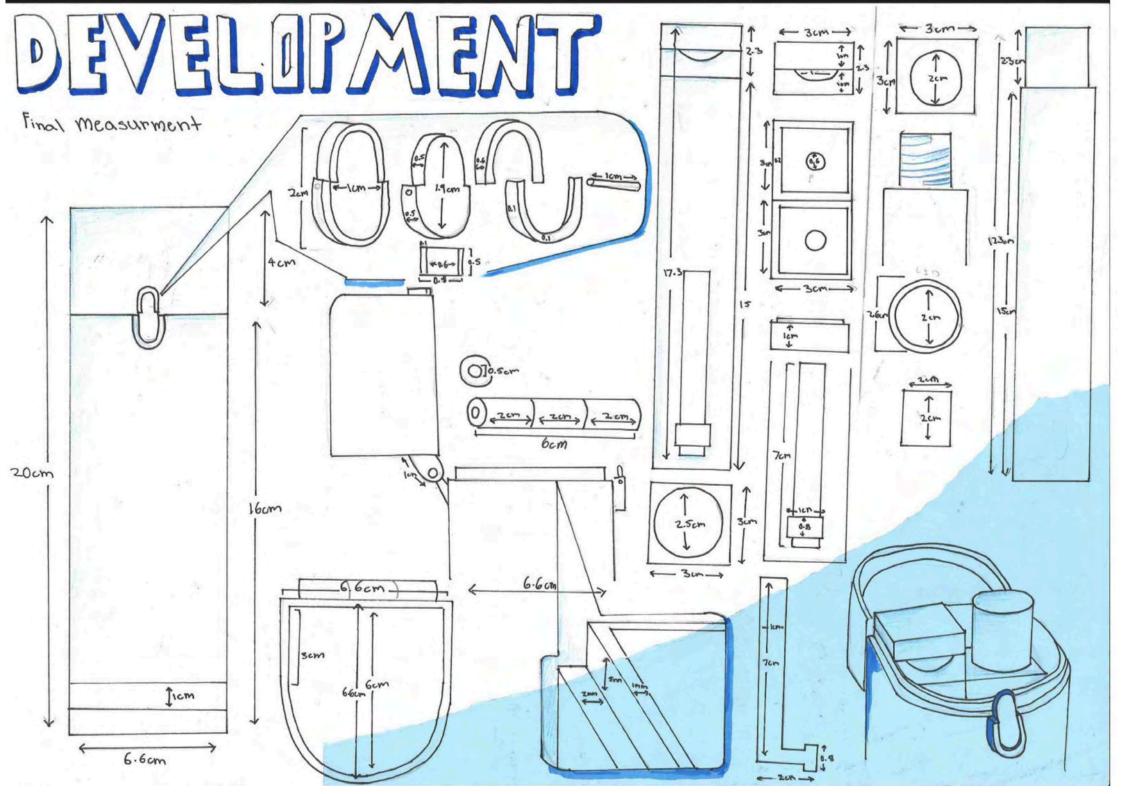






DEVELOPMENT This was 5 50 changed it to 80 changed the Size of the hole. makes it stronger 50 then 14 fets initial design Hibbron Function Final main Sittle 50 then it fis into the bothle moved 14 to the th lower frount





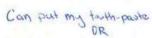
DELLING AND FUNCTION





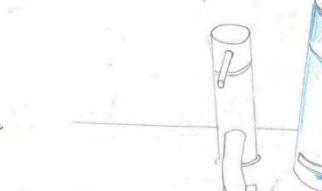




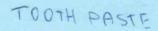


you can swap them out however you have

















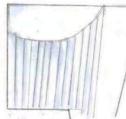






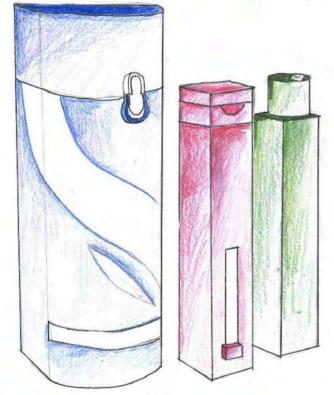


COLOUR



Good Grip easier for uswers

Final colouring



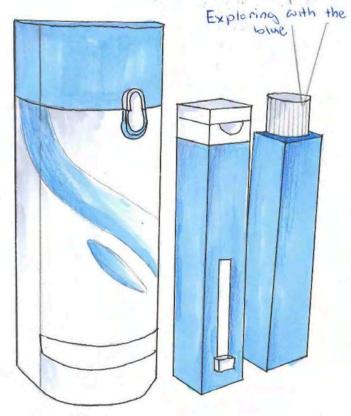
Different colour options

Any colour looks nice but the blue stood out to me.

Material options

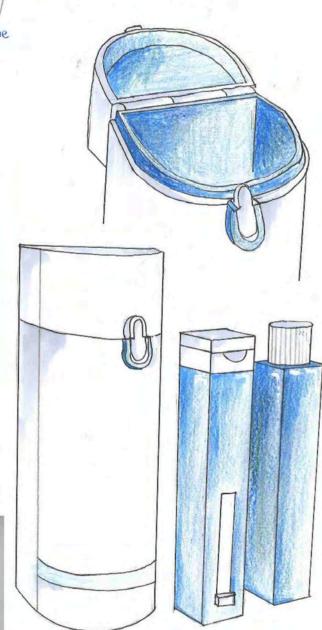
- · Plastic
- 0 G1055
- o metal
 - Stankoo steel
- Aluminum
- · sillcone

O PET



Artifical intelligence colour options





FINAL DESIGN

All the Parts

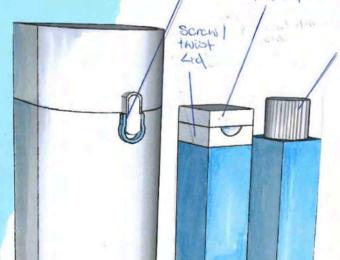


"As into bade pack

to make bottle more secure for travelers

I down thum bus stead whoot slow I sell its

Flip open and close



push to get

tooth-posts

The main wettle size

is 20cm tall by 6cm x 6cm

Small ones are 17.3cm by 3cm x 3cm

Screwiltwist Lied and good grip

Material
BPA Free bottles
Eco freedly
recyclable plastic



My bottle is compact and usuer friendly.

It can be brung on planes since it is

under the 100 ml rule

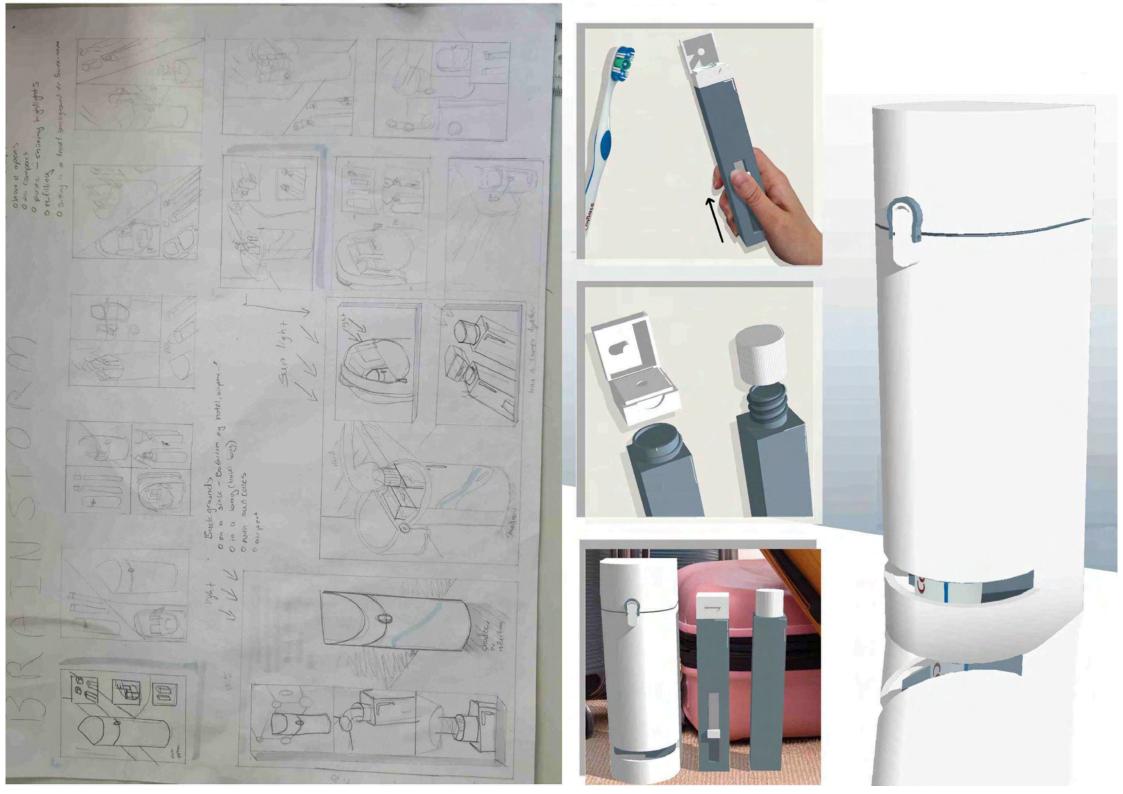
this is so

the tooth braish

to prevent mold

Jan air out

Mouth Wash holds max 53mL





Excellence

Subject: Design and Visual Communication

Standard: 92002

Total score: 08

Grade score	Marker commentary
E8	This project involves designing a travel kit that holds toothbrushing products. The visual communication used throughout the submission is clear. The submission shows a range of modes, including freehand sketches, CAD models, and physical models. Features and details of how users will interact with the product are shown from a range of angles and views.
	The submission explores a range of design ideas and demonstrates clear decision-making and continued development of an idea by exploring alternatives, changing the design, and adding features and details that improve the design for the user. Decisions to improve user experience are made at each stage of the project; this is communicated through notes and visually with the inclusion of hands to indicate how the user will interact with the kit and the products that will go in it. The final product is shown being used in various ways.

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Level 1 Design and Visual Communication 2024

92002 Develop product or spatial design ideas informed by the consideration of people

EXEMPLAR - SPATIAL DESIGN

Excellence

TOTAL 08

SITE ANALYSIS

LAKE MANGAMAHOE MOUNTAIN BIKE PARK

I am designing a tiny cabin which will be located at the Lake Mangamahoe MTB Park.





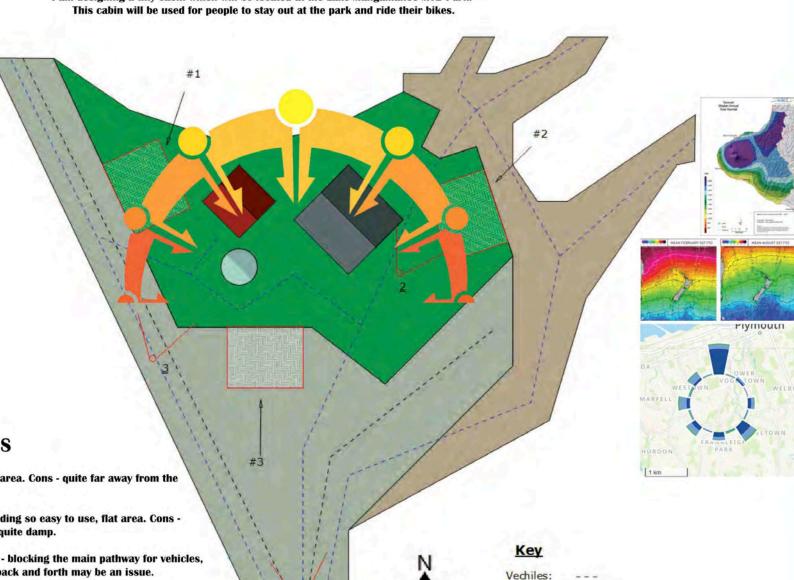


PROS + CONS FOR LOCATIONS

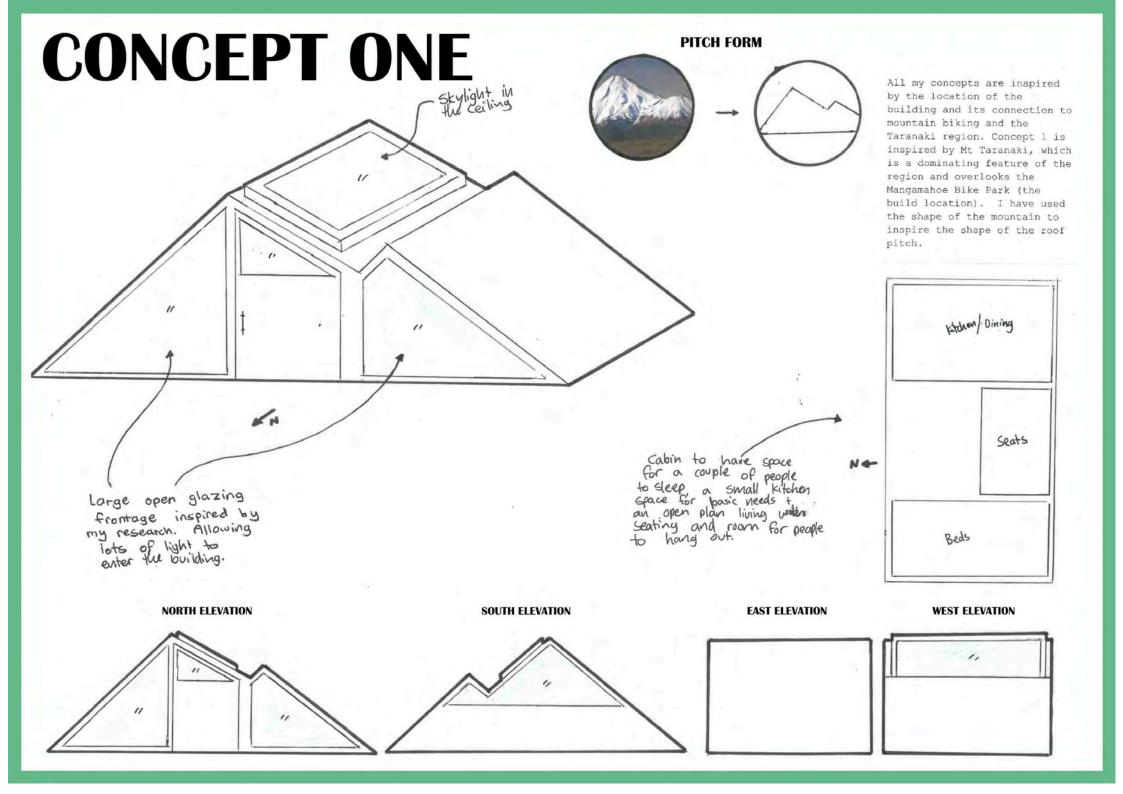
#1 Pros - easy to access, right on main path, flat area. Cons - quite far away from the trail network.

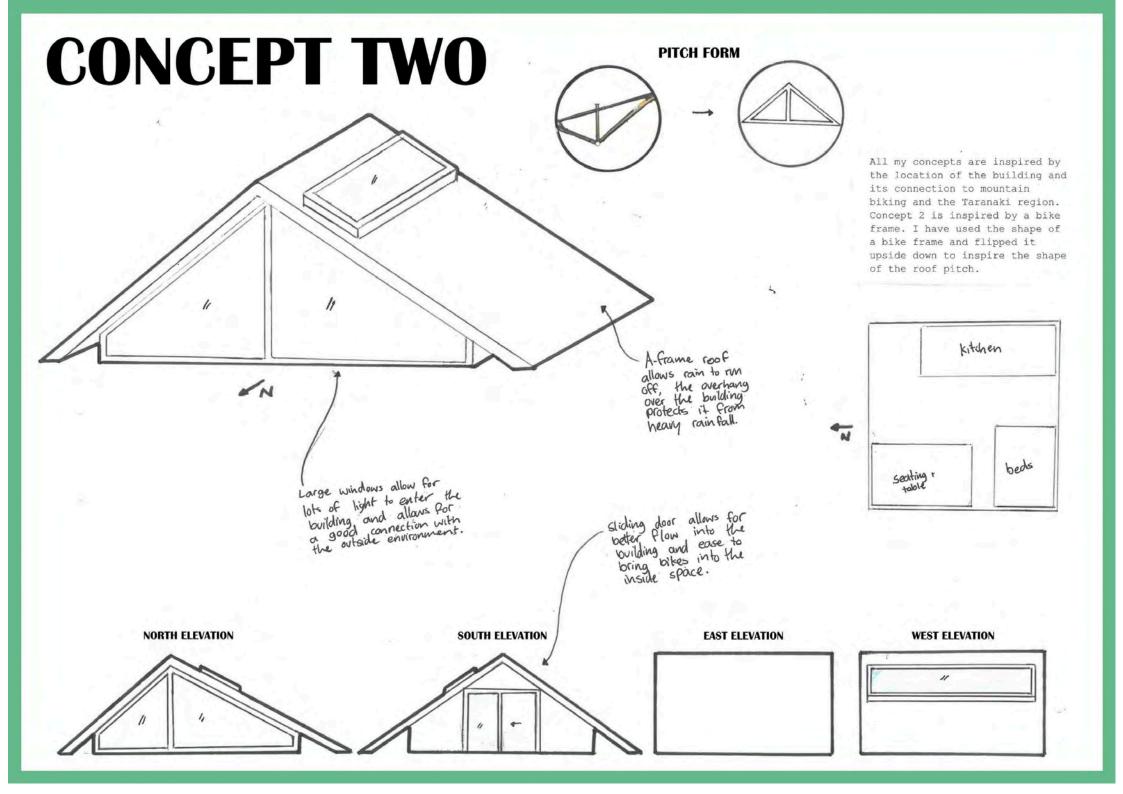
#2 Pros - Close to trail network, next to main building so easy to use, flat area. Cons uite far from main gravel road, that area can get quite damp.

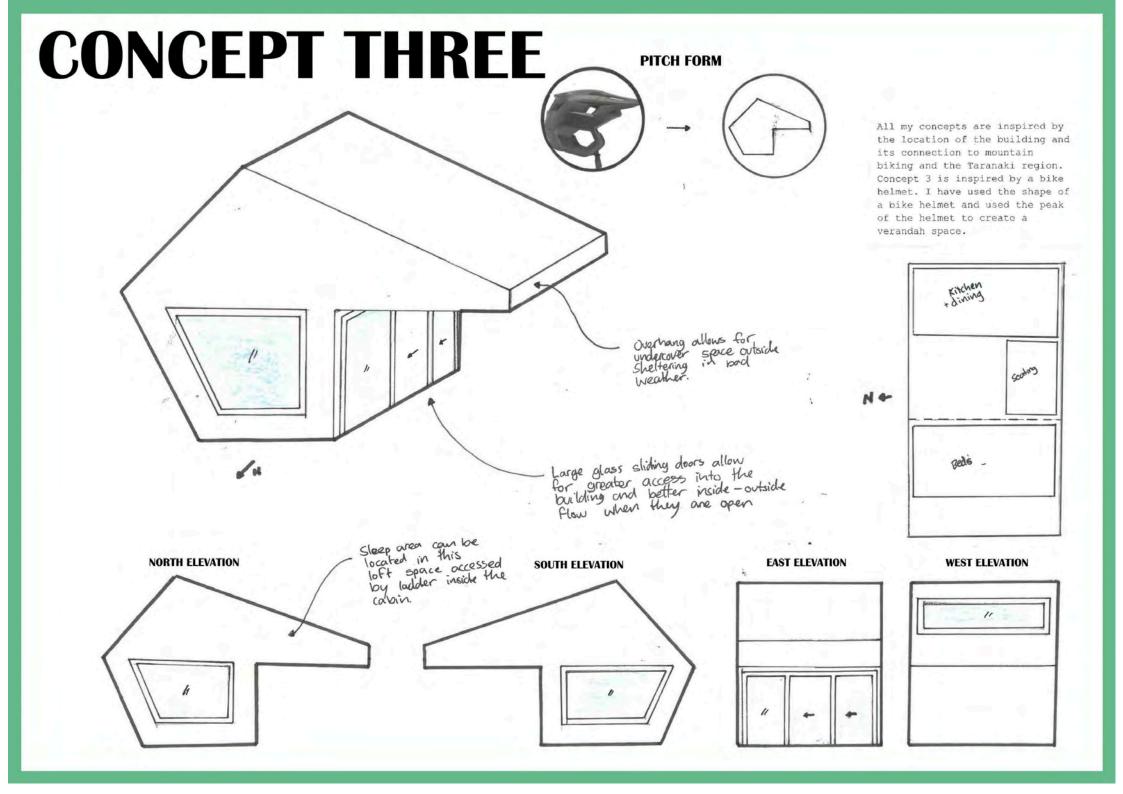
#3 Pros - right near the entrance, flat area. Cons - blocking the main pathway for vehicles, far away from the trail networks so getting tools back and forth may be an issue.



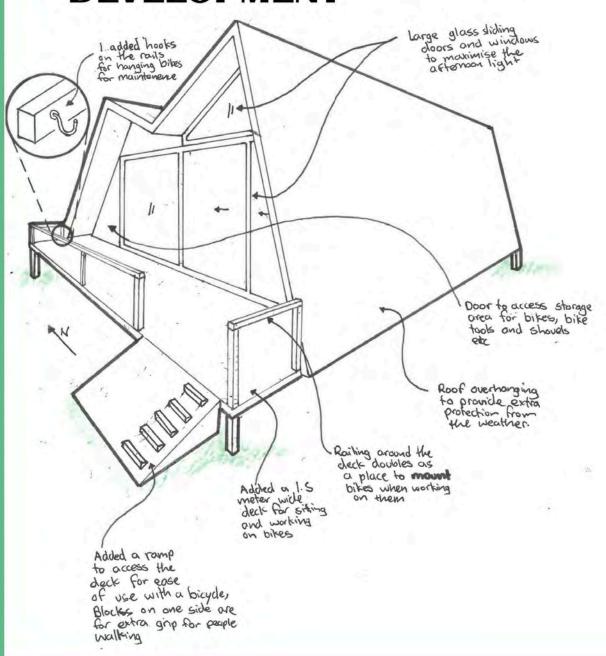
IDEATION SKETCHES Mount Taranaki Rike Jump

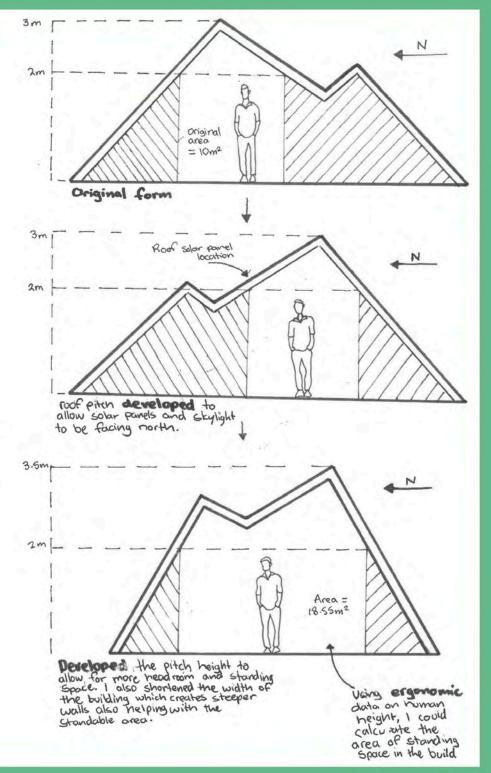




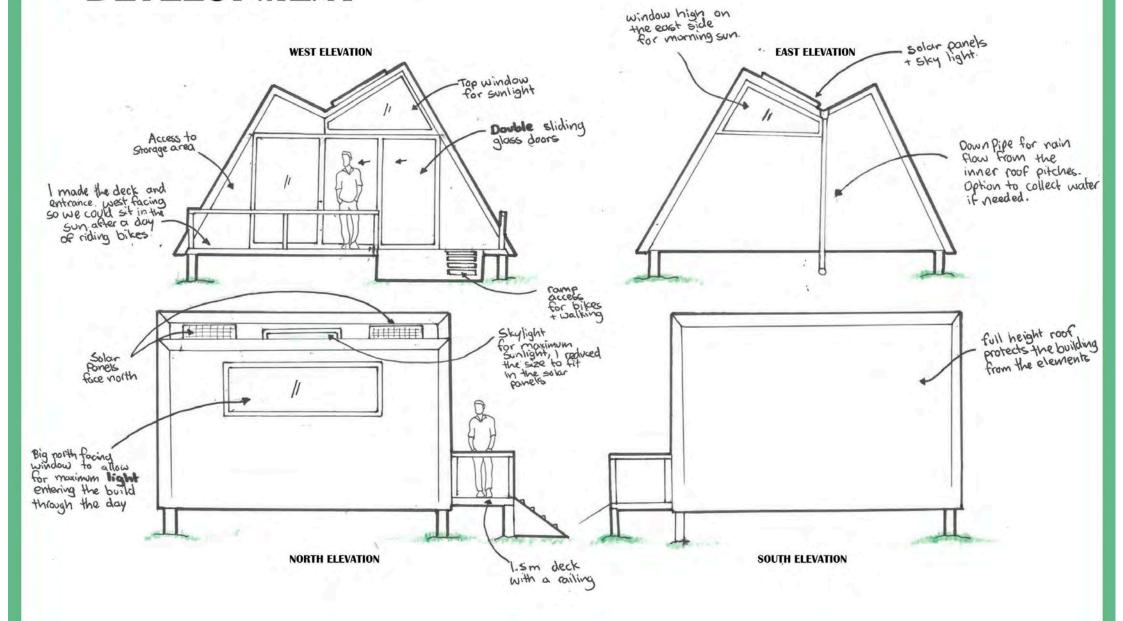


EXTERIOR FORM DEVELOPMENT



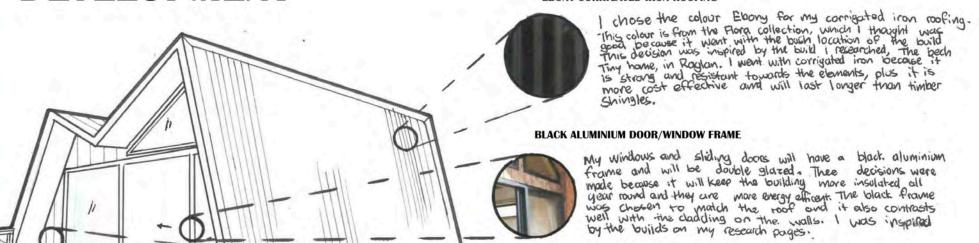


EXTERIOR FORM DEVELOPMENT

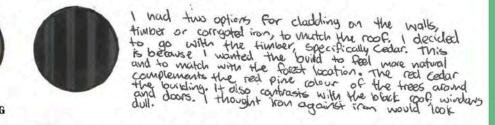


EXTERIOR MATERIALS DEVELOPMENT FRONT CORRIGATED FRONT CORRIGATED

EBONY CORRIGATED IRON ROOFING



CEDAR CLADDING







I had to drose between pine and Cedar for my deck. I decided to go with the Pine because it added come variation to my build. The pine is more cost effective and comes with grones to provide goip on the deck. If it was middy or rainy after a ride. I also used pine because the build is also surrounded by fine trees.

STAINED PINE RAILING

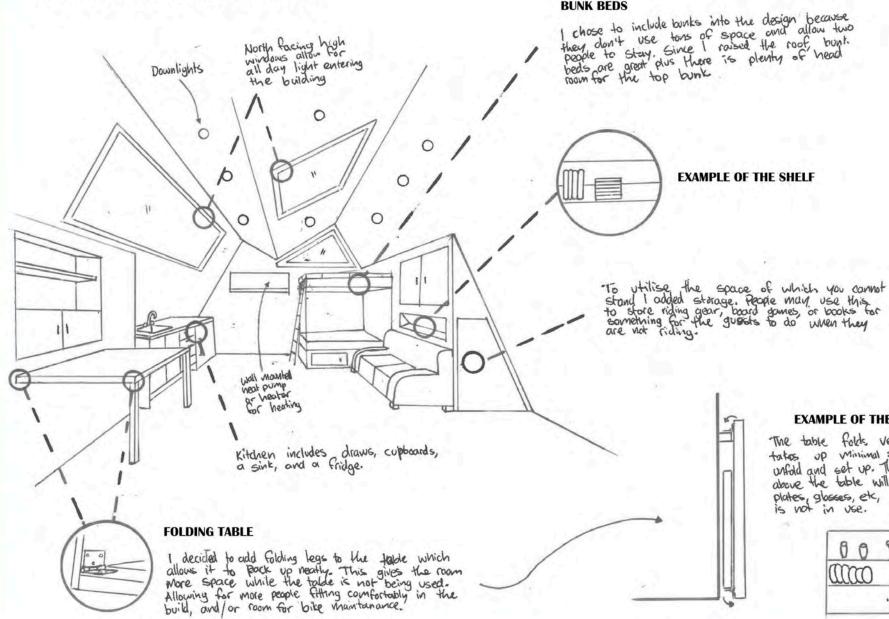


I wanty to keep the railing wooden so I chose to use sine again. I thought the plain Pine didn't look great as it was the same as the deck so I decided to skin it. I chose to stain it black as it matches with the roof, doors etc. This colour contrasts with the deck, also it gives weather resistance.

INTERIOR FORM kitchen includes fridge space for cool drinks, access, and water and cupleand arowers and cupleand arowers for tools, utensits space and first aid, etc. **DEVELOPMENT** odded a storage cupropard in the height restricted area to maximise the un used space. - height restricted the core a means the be furniture has tall out from the period of the core of the Kitchen is too Close to bunks because of the ceiling height restrictions on the right. Void area below Neight of where Weight of Bards top. I CHOSE #3 BUNKS Fridge Fridge Beach Bunks Fridge Bunks storage Storage 5000 GAK sint. Table Folding Toble Sofa Folding Storage Storage able Storage #1 #2 Storage area can be accessed from the outside for bike the outside for bike and tool storage as well as inside shelving for table accessores. into the colon because of the location of the sofar. restricted sofa was moved further back to impose Storage door opens fully to allow ease of access on the deck space. Flow of movement through the space. Restricted by the table location Plow of movement into the colors.

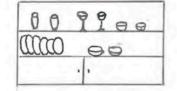
INTERIOR FEATURES **DEVELOPMENT**



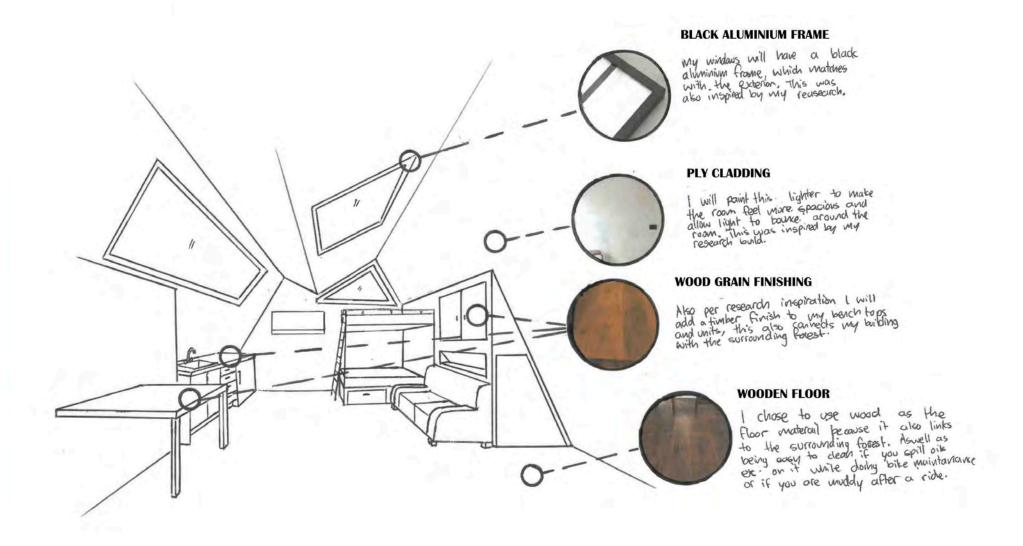


EXAMPLE OF THE FOLDING TABLE

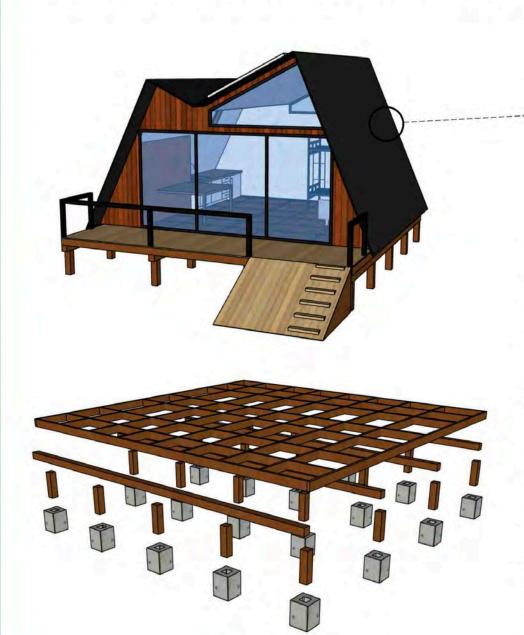
The table folds very compactly and tates up whiting space. It is easy to unfold and set up. The storage/shelving above the table will be used to store plates, glosses, etc, for when the table is not in use.

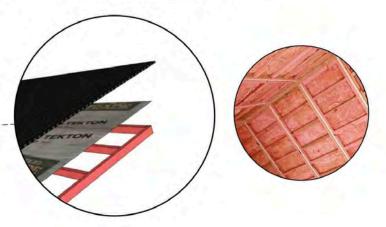


INTERIOR MATERIALS DEVELOPMENT



CONSTRUCTION DETAILS





ROOFING/FRAMING/INSULATION

The use of corrugated iron roofing in my project ensures durability and low maintenance, making it ideal for the often damp conditions at Lake Mangamahoe. It efficiently sheds rain and snow, protecting the structure from harsh weather. The wooden frame was chosen for its natural aesthetic and sustainability, blending the cabin seamlessly into the surrounding environment while providing structural strength. Building wrap acts as a moisture barrier, preventing water infiltration while allowing the building to breathe, enhancing the longevity of the materials. Pink Batts insulation improves energy efficiency, keeping the cabin warm in winter and cool in summer, providing comfort to occupants and reducing energy costs. This combination of materials was carefully selected for resilience, environmental harmony, and occupant comfort.

SUBFLOOR/FOUNDATION

I chose a wooden subfloor for its flexibility and natural warmth, which contributes to a more comfortable interior feel. It also provides effective insulation, helping to maintain a consistent temperature within the cabin, important for a project focused on energy efficiency. The concrete foundations were selected for their strength and durability, ensuring the cabin remains stable and secure, particularly in the outdoor setting of Lake Mangamahoe, where weather conditions can vary. Concrete also offers protection against moisture and ground movement, ensuring the longevity of the structure while supporting the lightweight wooden subfloor above. Together, these elements create a solid yet comfortable foundation for the cabin.

FINAL DESIGN



EVALUATION

At the beginning of this design project, I focused on integrating both historical (Mount Taranaki), modern design influences, as well as objects that relate to Mountain Biking to create a compact, functional space at Lake Mangamahoe Mountain Bike Park. By studying modern architecture and sustainable design principles, I was able to combine practicality with a sleek, contemporary aesthetic. The choice of a triangular roofline in Concept One ensures efficient water drainage, which then can be caught to use within the build, while maintaining a strong visual impact.

Incorporating large windows across three elevations allows the building to maximize natural light, enhancing the relationship between the interior space and the surrounding natural environment. The positioning of the house on a flat, easily accessible area also ensures that visitors can fully enjoy the views and landscape while keeping the structure practical for daily use.

The material choices-such as the black aluminum frame and cedar cladding-are inspired by both modern trends and the natural environment. These materials are not only durable but are carefully selected to blend with the earthy tones of the forested surroundings, ensuring the cabin maintains a low environmental footprint while still offering a visually appealing design. The ebony corrugated iron roofing further enhances the structure's resilience against the elements, especially the often damp conditions of the park.

Finally, the open interior layout, combined with thoughtful finishes like plywood cladding and wood grain floors, ensures that the cabin feels spacious despite its compact size. These choices enhance both comfort and sustainability, creating an ideal cabin for Me and My friends to use. It also opens this build to be a get away for other cyclists if we decide to.

Excellence

Subject: Design and Visual Communication

Standard: 92002

Total score: 08

Grade score	Marker commentary
E8	This project is for a tiny home located in a mountain bike park. The submission is clear, uses bold freehand sketches to explore a range of design ideas, and then selects one idea to develop further.
	The interior and exterior of the building are developed with consideration of both the user and the site. The submission includes a range of visual communication techniques (including 3D sketches and range of 2D sketches) and notes to improve the design based on a user's experience. People are shown throughout the project to show use and scale.
	Details of the design are shown through a detailed floor plan, zooming in on construction information, and an exploded drawing of the floor structure.
	Within the final design, users are shown interacting in the building, and the building in its location.