





Context/ story

live underwater

navigate underwater

so can't see well in dark waters. They rely on other senses to havigate

SUMMARY:

- like turtles, humans cannot rely greatly on their eye sight to navigate underwater.

- Unlike turtles, humans do not have other senses to help hangate

eye-sight is moderate - My product will provide people with the ability to na ngate underwate with ease like the turtle hard with style!

protective shell (carapace)

-shell is protected by plates (scutes)

> Webbed feet/ flippers

unique shell pattern quite geometro

Streamline body

Lake 'pitch black' when divers died



WHO? - underwater scuba divers

- lake divers

- divers who aren't confident?

- divers who want additional safety?

WHAT? - my product will be an underwater light which divers can conveniently carry around with them to navigate around the dark depths of water.

WHERE? - lakes? - lake diving? - maybe oceans?

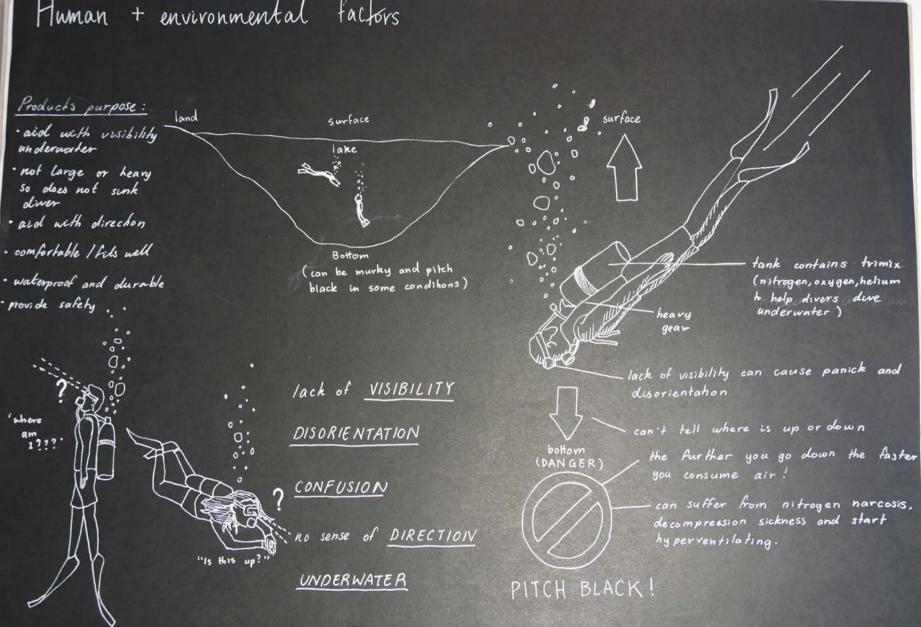
Fatal dive inquest: Water went 'pitch black'

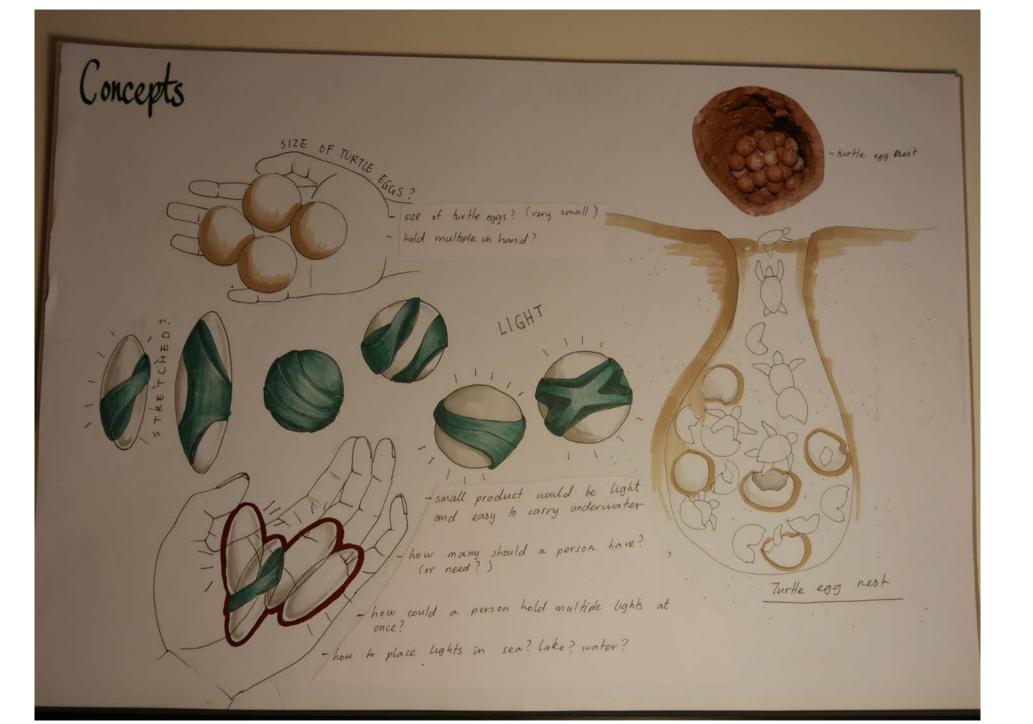


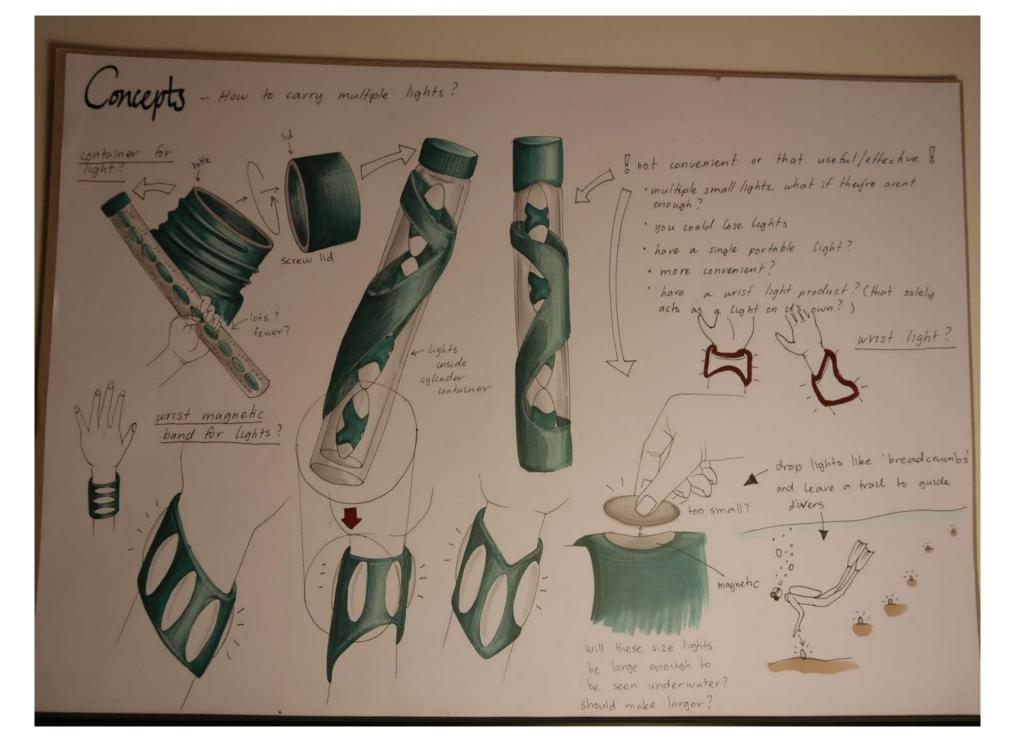
WHEN? - light product would be used when divers go underwater and can't navigate in the dark (deep waters where sunlight cannot reach

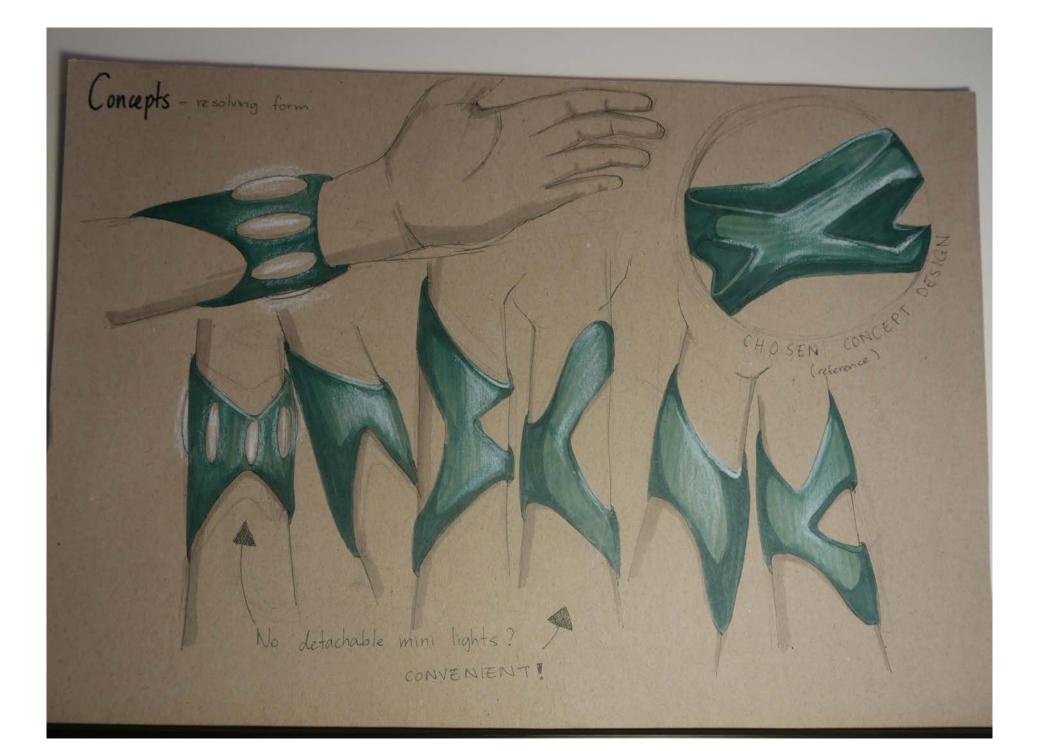
WHY? - to ensure the safety of all diver of all levels. Divin can cause disorienten and confusion of direction. The light product will provide divers with the necessary high to navigate through waters while keeps safe.

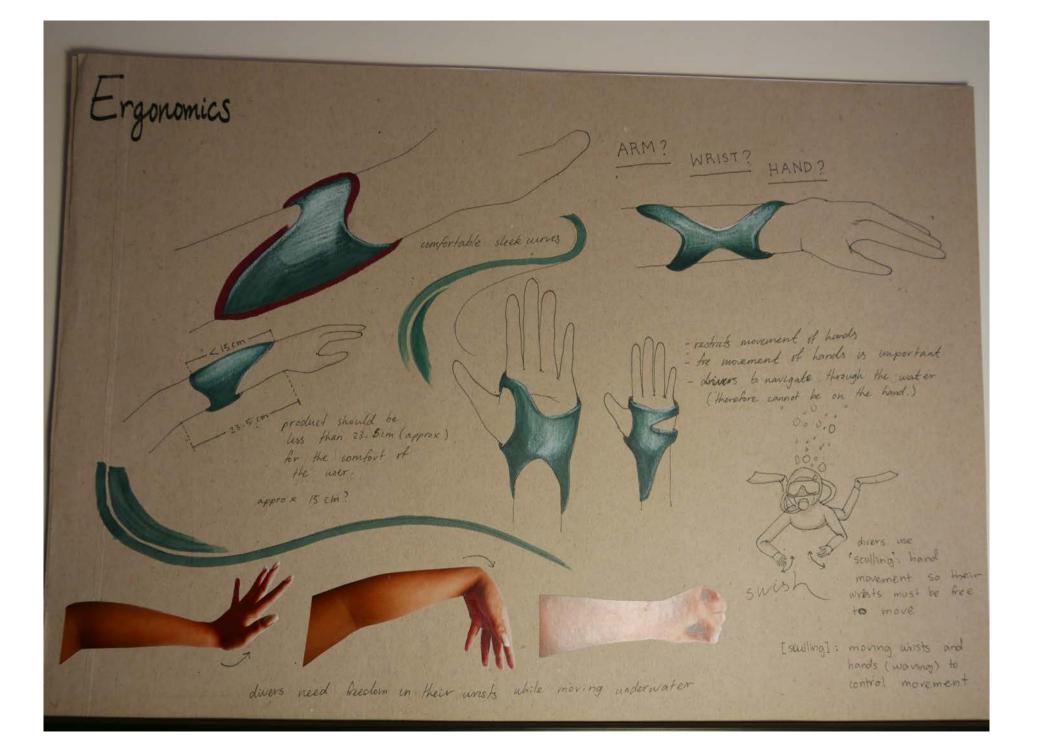
Human + environmental factors











How will my product produce light?

glouing light

WHERE IS THE LIGHT?

whole product is

light on top?

would light be

too small?

bright light is in the eye's line of vision, would be annoying and harm we it it continously shines.

LIGHTS UNDERNEATH :

make light bigger? but will it be bo heavy on the arm? take bo much effort to wear / carry? light is brighter

brightness of links would

harm vision of wearer of person stares at light.

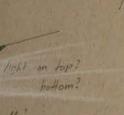


large portion of bottom as light. light is still at bottom so well not weight well be more distributed, so feels less heavier. under light wea so gues more light.



brightness of light/ light rays well not bother eyes of weaver or others easily.

so light should be underneath



too small?

+ light from rim of the product more control over the light?

Turtles: how do they find their way?



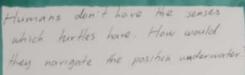


. from birth, baby furtles pinpoint their locations of birth then travel out to the sea

· Turtle will trowel thousands of miles to return to

their birth place

I was just born but my instincts tell me to go to the



- Navigahen 1
- Latitude ?
- Longitude ?
- Track other divers in groups?

Don't worry bro. we can find our way home. We can use magnetic/ and or solar compess!



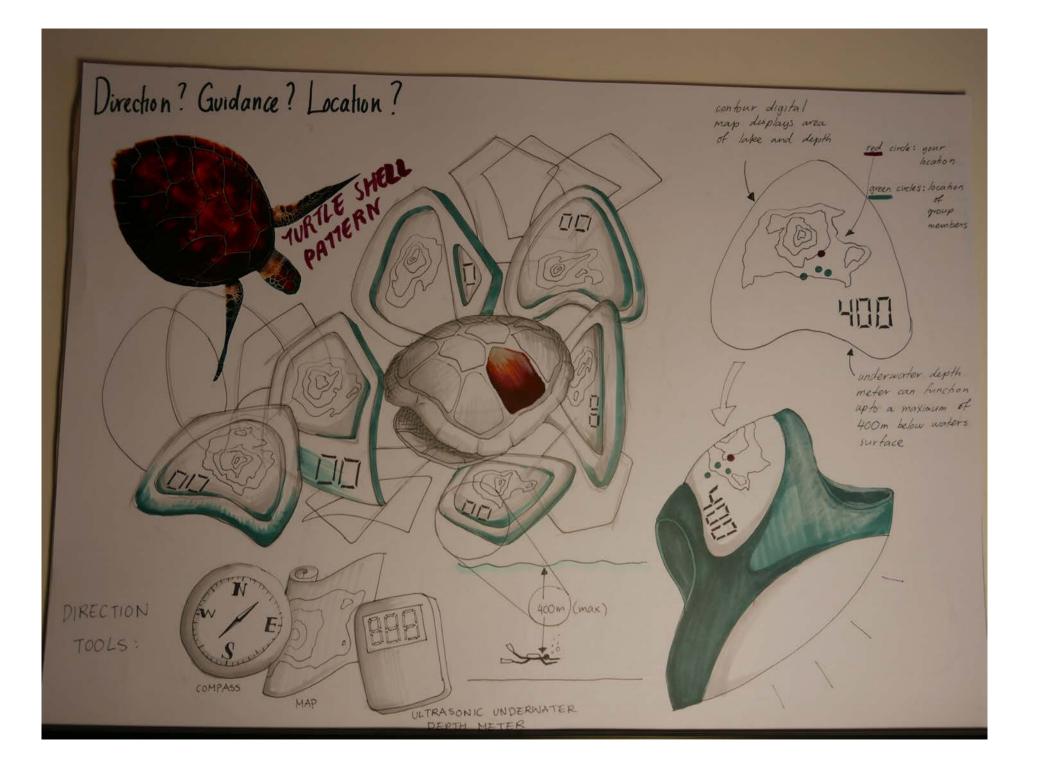
· Turtles return to their place of birth years later to lay their own eggs

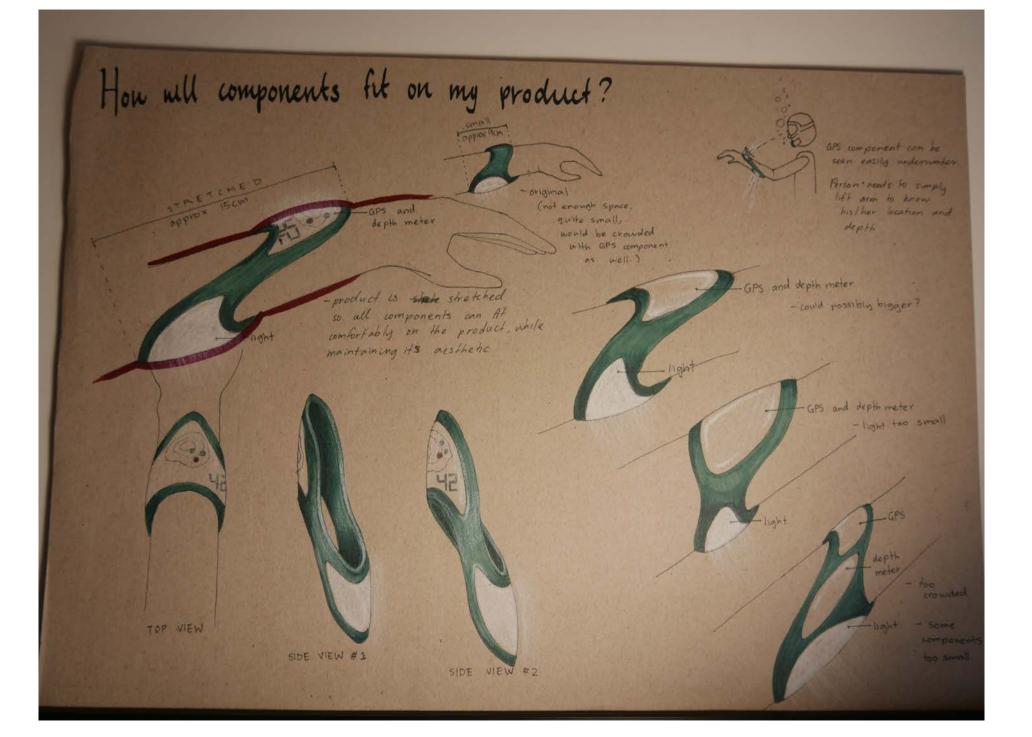
HOW ?? 7

- · by sensing the invisble lines of the magnetic fied without netting lost
- · they can pin point locations
- · like an invisible map' in their senses
- · can detect both the angle and intensity of the earth's magnetic
- · may be able to determine its latitude and



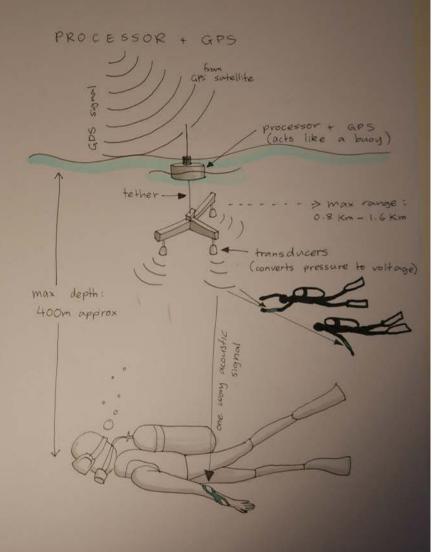


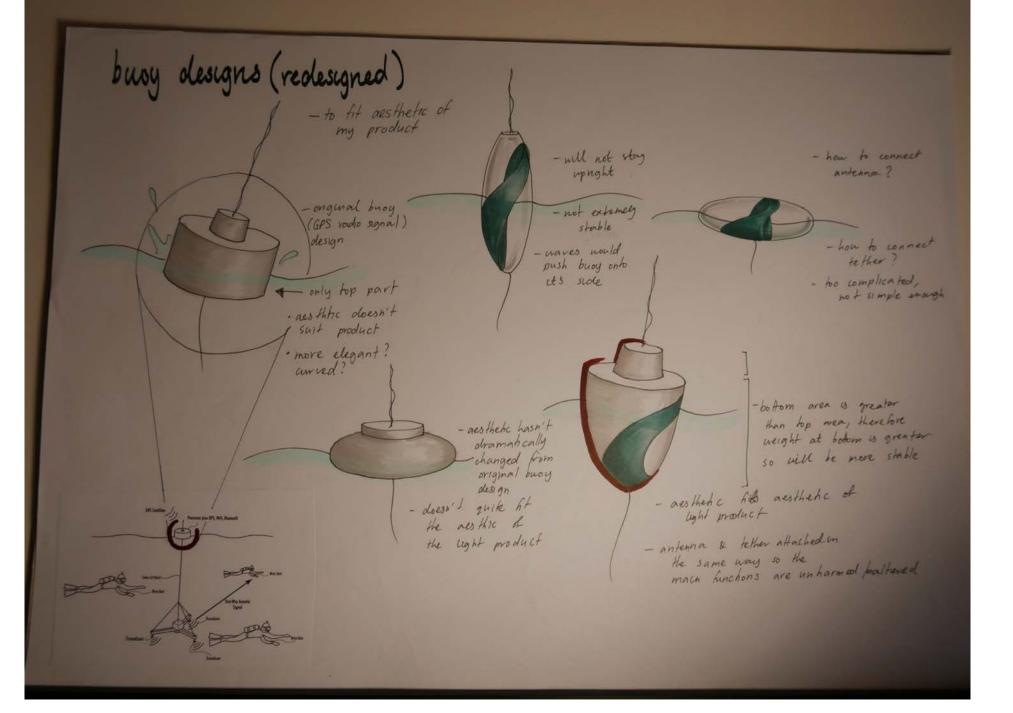


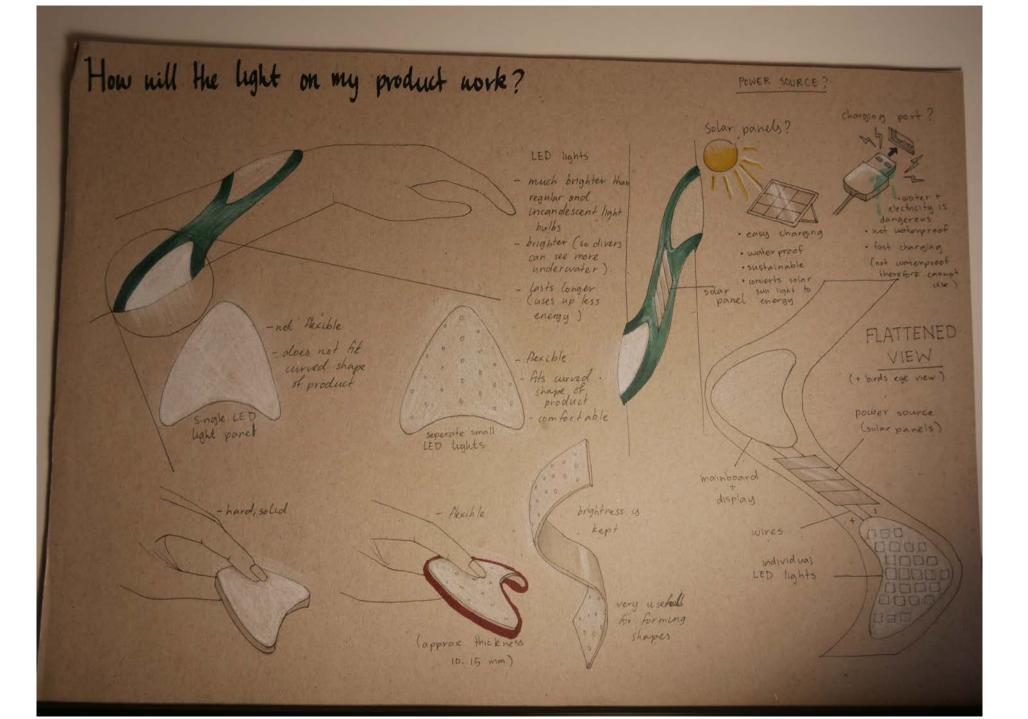


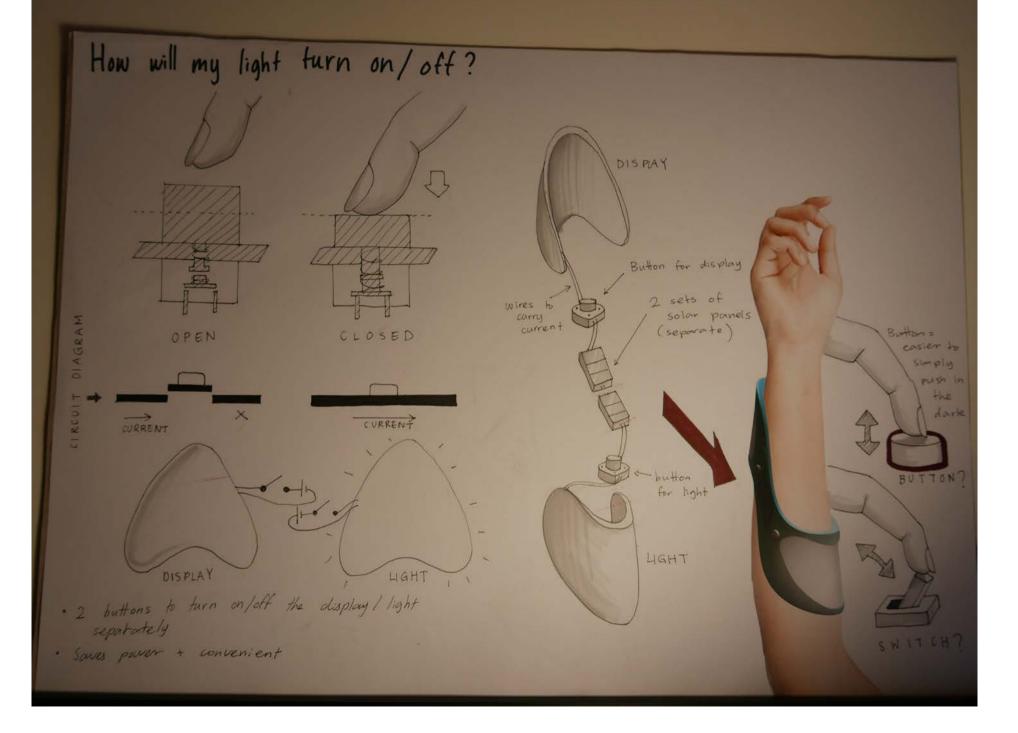
How will the GPS on my product work?

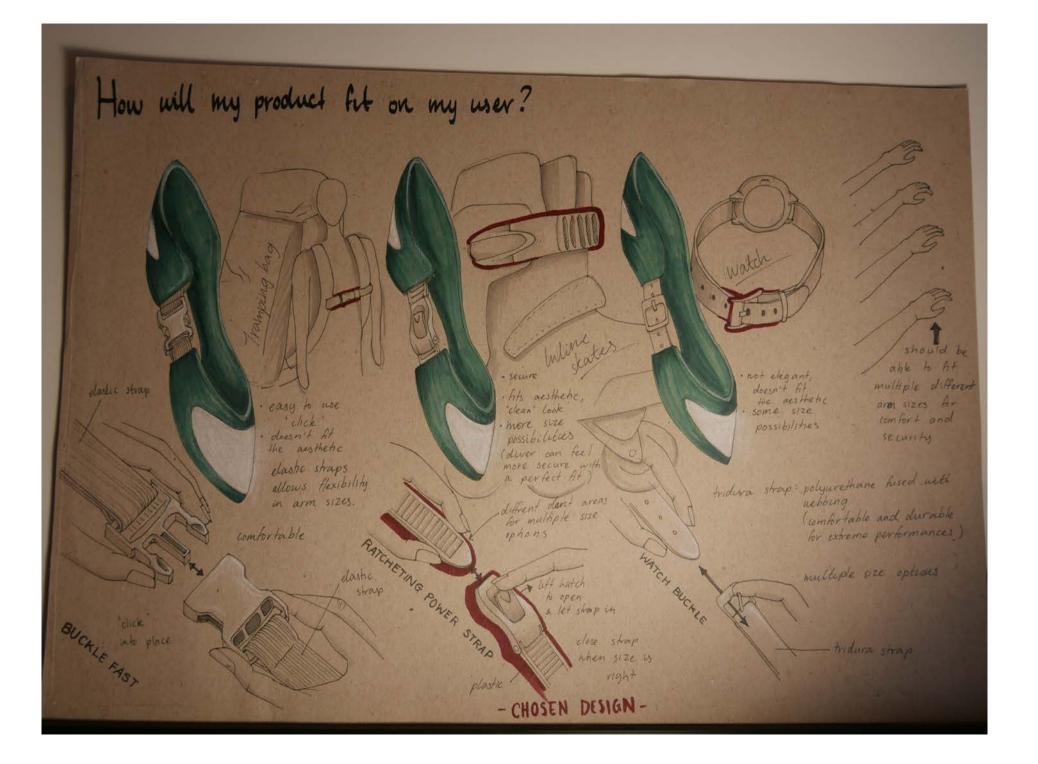




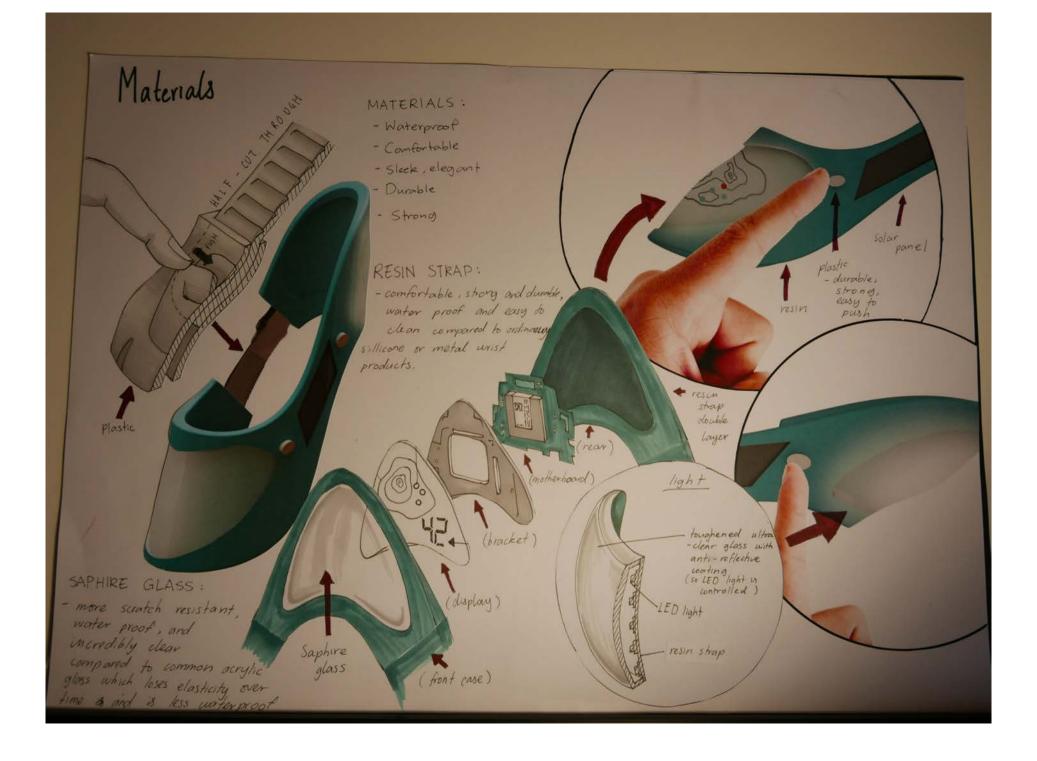




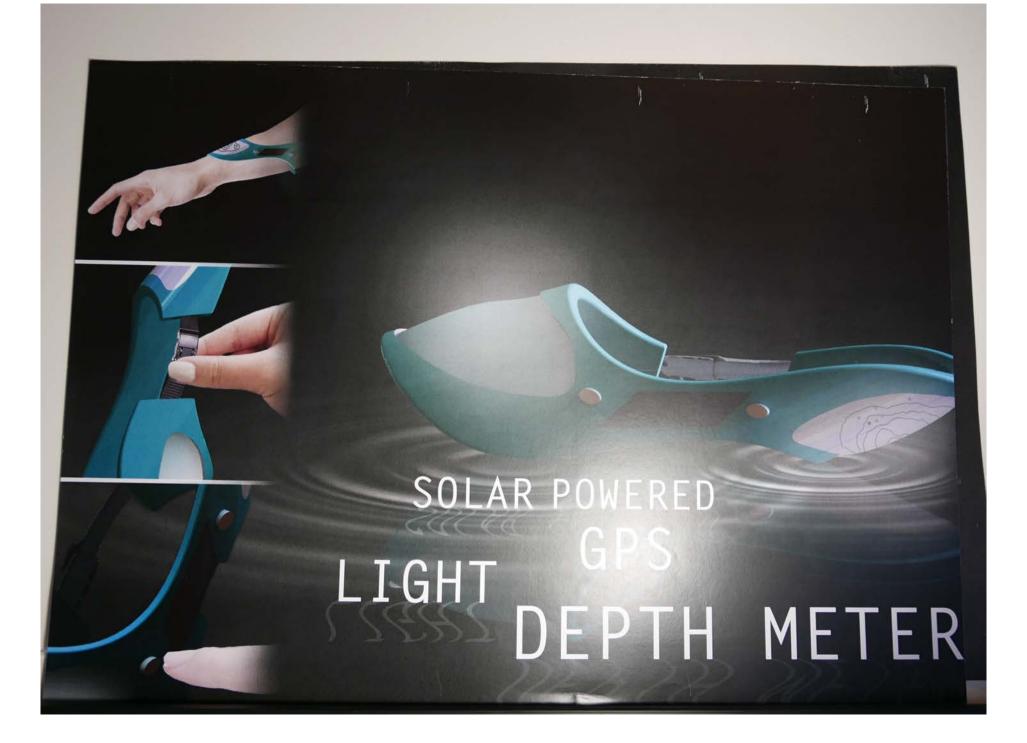


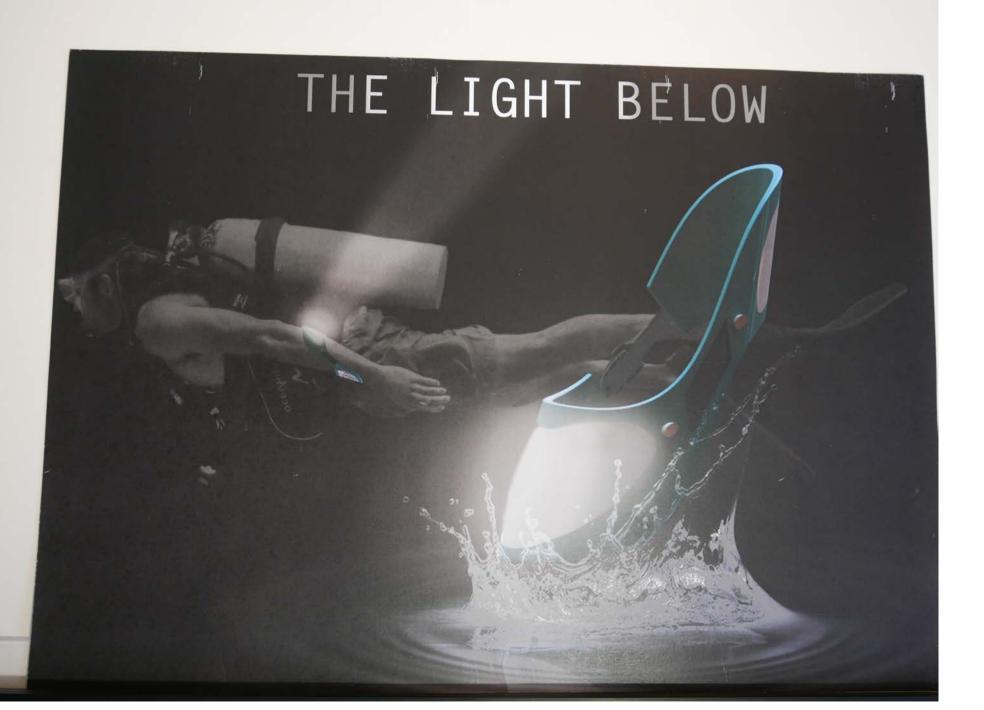












PRODUCT: SCUBA LIGHT

28 PAGES

Level 3 91627 (3.30)

NCEA Design and Visual Communication (DVC) 2018

AS 91627 (3.30): Initiate design ideas through exploration (4 credits)

Achievement	Achievement with Merit	Achievement with Excellence	Overall
Initiate design ideas through exploration.	Initiate design ideas through insightful exploration.	Initiate design ideas through extensive exploration.	level of attainment for 91627
Use starting experiences and visual communication strategies to explore alternatives and variations to expand design thinking.	Use visual communication strategies and design thinking to analyse and re-interpret design ideas.	Use visual communication strategies and design thinking to extend and transform design ideas.	Ε
 Ideas are <u>re-generated</u> from alternatives and variations which <u>lead towards</u> design ideas. 	An emergent train of thought is identified and informs further design ideas.		

Underlined aspects were used in making judgements.

A diagonal line indicates that a specific aspect was either not in evidence or was not shown in enough evidence to reach the appropriate level.

Pages 1 - 8 contain the starting experience of shape and form exploration from a turtle. There are a range of variations and alternatives that expand design thinking before a brief or context is introduced. Page 9 - 10 bring context and a refined focus. Pages 11 -15 re-generate earlier shapes and forms and lead into design ideas around a scuba light.

Pages 16 - 24 have ongoing analysis and re-interpretation of the re-generated design ideas with the introduction of new context details considering maps and GPS. Immersed throughout these pages are connection to human use factors, design idea functions, and performance all in relation to the context which shows insightful design thinking. The train of thought is informed while at the same time though this section the design idea is extended and transformed to an unpredictable design idea. Pages 24 - 27 summarise and bring together the design idea that has been extensively explored so it is understandable and can be seen easily. The design thinking is concise and effectively communicated.

This submission is an Achievement with Excellence. It has a focused train of thought and context throughout. The design idea is evolved through extensive exportation. The visual communication strategies used are effective and work well to tell the story of the design thinking and idea clearly. The consistent use of design marker, pen, and collage work harmoniously to demonstrate the form of the design idea throughout. A proficient ending is shown by the selection and use of formal final presentation style pages to give an overview of the extensively explored design idea.