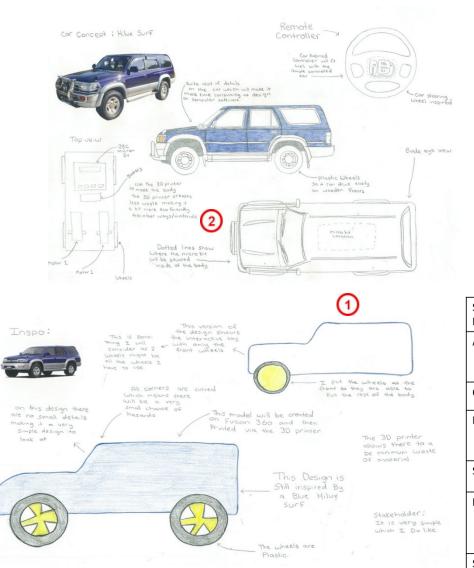
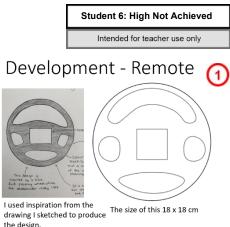
Exemplar for internal assessment resource Technology for Achievement Standard 91610





the design.

I have created a remote-controlled via using illustrator. Originally, I was going to make the controller through Fusion 360, but I think laser cutting it will work better with how much time I have.

Specifications Points	Hilux Car Design	rate
Aesthetics -	This design is navy blue which fits in with specifications of the neutral colours.	5/5
Customers -	This design is suitable for all ages	4/5
Environment -	The wheels on this design are a good fit for the wooden floors in the stakeholder's home.	5/5
Safety -	This design has all rounded corners.	5/5
Durability	The way this product is constructed should be durable enough to not break after being driven a little crazy.	5/5
Size	This design would be around 20 x 13 cm	

Existing product analysis 1 (secondary research)

Client

- The recommend age for the Hell Rider is 6 years or over. Therefore this product can easily be used for my client but the design of it is specifically made for a younger market.

40 cm long monster truck

large and possibly suited for

40cm long is quite long.



- This remote controlled monster truck has racing body that is light, flexible and stable with full suspension. The Hell Rider goes up to approx. 9 km/h and able to be thrown around a bit when using.

Aesthetics- A dark get and black creating a sense on evilness. The whole truck gives you a sense it wants to crush you.

Cost - \$72

Environment

- This remote controlled monster truck uses 6 x AA batteries which is guite a lot of batteries which may not be great for the environment. The rest of the product is made from

Conclusion

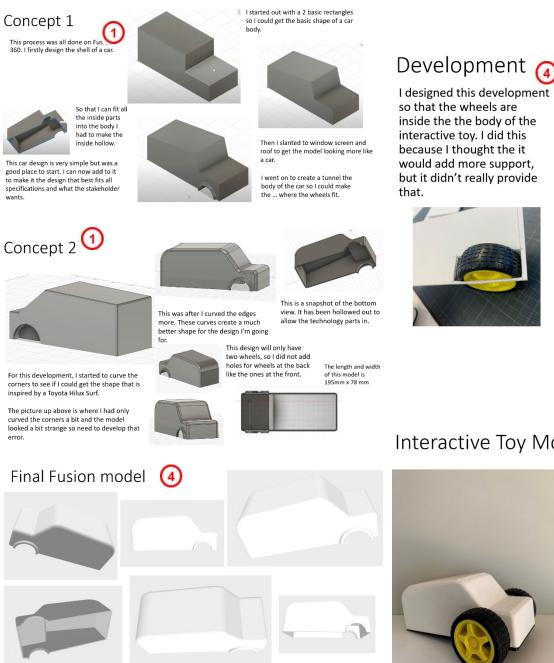
- Overall this product has helped me to gather information about an existing product on the market that I can learn from through my analysis.

Having a toy this size for my stakeholder may be a bit

Size

(3)

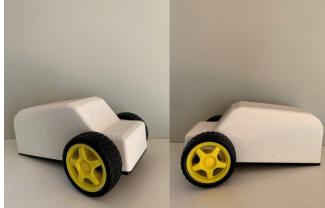
younger ages



I started this development by measuring the size of the wheels and then marking that up on a piece of foam board. I then cut out where the marking said. I had to ensure that there was still room for the wheels to be able to spin without getting caught on the sides.

This design would mean that I would have to make the scale of the interactive tov body big which would not meet the specifications of the wanted size.

(5) Interactive Toy Mock up



Evaluation against the specifications

Specification points	Specific criteria	YES/NO	Justification
Aesthetics 6	A neutral colour palette so the product doesn't look stressful. Stakeholder requested either blue or grey.	Sort of	The end model was white which in a neutral colour pallet and isa few shades lighter then grey which in one of the colour the stakeholder requested.
Cost	The product would probably range at about \$115 due to the cost of all the resources and if I wanted to be ethical during the potential of manufacturing, I would want to pay the employees the correct amount and not underpay.	Durability	The materials chosen have a good amount of strength so the durability of the toy should be great.
Customers	The interactive toy is designed to appeal to the eyes of 40-50-year-olds but people 11 years and above would still enjoy using it making it suitable for those ages as well.	Material	The car will be made from 3D printer plastic and acrylic to hold the micro-bit in. the remote is made from acrylic.
Environment	The wheels on this are perfect for wooden floors inside a house.	Function	Design is super easy and fun interactive toy that can keep the user entertain during free time.
Safety	Yes, all the corners on the final design have been rounded and there are no small details giving it a 5-star safety rating.	Size	The car is 83 x 19cm and the controller is 15 x 15 which meet the size specifications.