# ...New Brief..

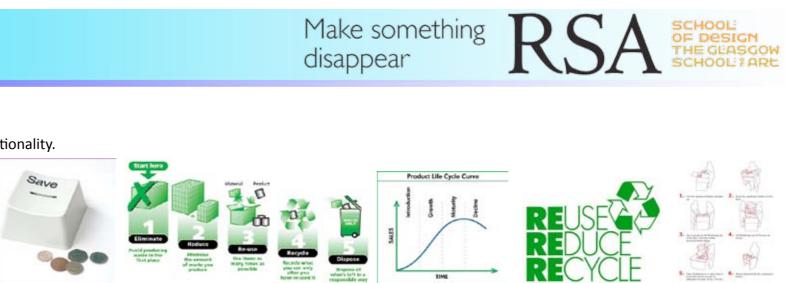
Design a multi-functional product which will serve for longer than usual and whose disassembly is integral to it's functionality.

### .. User requirements..

### ...Design Criteria...

Must be easy to assemble and disassemble Must benefit the user by combining products Must save the user money by lasting longer or eliminating products

Must combine products which are useful together Must use materials which are environmentally friendly or use less materials by combining products Must give the product a longer life than usual



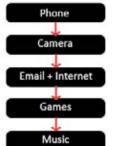
The new brief was similar to the old brief, but focussed on the multi-functional aspect rather than the alternative energy source. When looking at the RSA brief, I liked the 'product that combines several functions and eliminates the need for other product' response. I also combined this with a longer serving product and one which disassembles. This gave me a large area for development. By defining additional design criteria as well as user requirements specific to the new brief, I had a 'checklist' which I could evaluate my product concepts against.

# ..Concepts..

From this brief I came up with a range of ideas, 3 of which I took forward and evaluated.

Multi-purpose technology - choose what you need e.g. camera, phone, emails, games, music etc.





Rectangular docks Solar powered holding technology can be plugged charger together into screen and charged from solar power. Only take what you need and leave rest charging.

Pros: \*Parts can be charged seperately, meaning battery life can be extended

\*Disassembled and assembled easily, ensuring only carrying what is essential \*Less materials - less waste \*Good user benefit \*Good design stretch \*Good profit potential

### Cons:

\*Might be a hassle to not have all options handy at once \*Not using alternative energy or sustainable materials \*Not saving much energy apart from less charge dissipated

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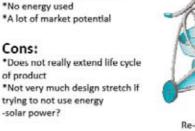
Measuring tool - measure distance/scale/angle etc. in one device

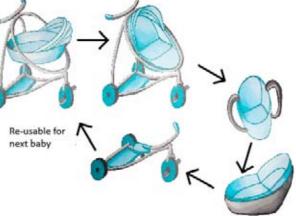


Pros: \*Keeps all tools in one product \*Less materials - less waste \*Less items for user to carry

Cons:

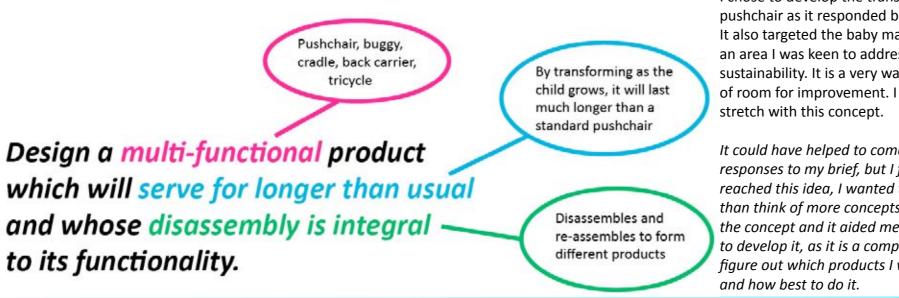
- buggy, car seat, back carrier, cradle, tricycle





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# ... Preferred Concept Direction: Transformable baby pushchair...



I chose to develop the transformable baby pushchair as it responded best to my brief. It also targeted the baby market which was an area I was keen to address in terms of sustainability. It is a very wasteful area with a lot of room for improvement. I found a lot of design

It could have helped to come up with more responses to my brief, but I found that once I had reached this idea, I wanted to develop it rather than think of more concepts. I was happy with the concept and it aided me to have more time to develop it, as it is a complicated idea. I had to figure out which products I wanted to combine

## .. Possible Components..

## **Pushchair**

Pram

Car Seat

**Back Carrier** 

Rocker

Baby pushchair which disassembles and transforms

Pros:

- \*One product instead of many
- \*Transforms as growth
- \*Less materials less waste
- \*Less items less money
- \*Less products less space
- \*Makes tasks easier for user
- \*Lots of design stretch

#### Cons:

\*Already masses of existing products which do similar - just have to do it better \*Very complicated mechanisms to enable it to work \*Child safety considerations \*Models and solidworks are only way to develop but could be

tricky

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#### .. Considerations..

Multi- purpose Adjustable

**Child Growth** 

Efficiency

Transformable

Design for disassembly and assembly

#### **Combine Products**

- Less waste
- Less products
- Less materials
- Second Life Longer Life Cycle

Cot

Cradle

**Push Tricycle** 

Tricycle

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