



Design Cycle Worksheet

Name: Raheel

Grade: 6

Date: _____

Explain and justify the need:

~~Tables~~, we write easier on "it".

Identify and prioritise the research:

Benchmark table shapes, sizes, colors, styles, number of parts, material and heights.

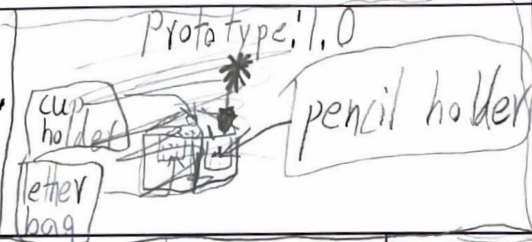
Analyse existing products:

They Range from 60cm to 90 cm.

Inquiring and analysing

Develop a design brief: Traveling writer

1. be stable.
2. be foldable.
3. be small.
4. contain a cup holder.
5. have a container.
6. big writing space.



Develop a design specification:

Aesthetics: smooth, rectangular, any color.
 Cost: manufacturing: 5\$, material: 15\$.
 Customers: middle-class Chinese people.
 Environmental consideration: move wood is used.
 Safety: little risk of collapse but no risk of tetanus.
 Function: writing at an elevated/comfortable height.
 Size: Manufacturing: wood, 10 mins. Materials: wood, iron nails, hold, stainless steel.

Specific
Measurable
Achievable
Realistic
Testable

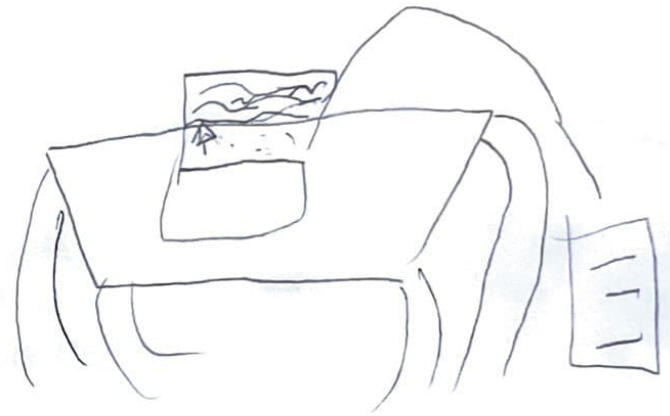
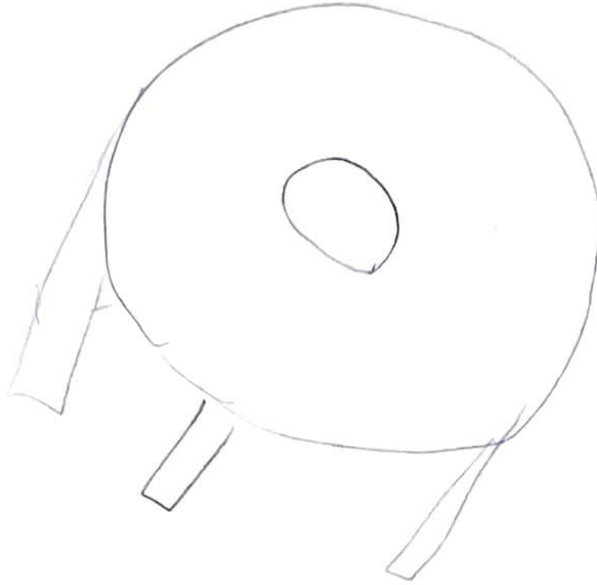
Aesthetics	Consider appearance, style, colour, shape/form, texture, pattern, finish, layout.	Manufacturing	What resources are available? Are there limitations as to how this can be created? How much time is needed to create the design?
Cost	Is there a maximum cost? Is this a material cost/time cost/selling cost?	Materials	What materials are available? What properties do the materials need to have?
Customer	Who it is for? What is the target user's age, gender, socio-economic background?	Safety	What safety factors need to be incorporated into the design?
Environmental considerations	Where will the solution be used? How will the design directly or indirectly affect the environment?	Size	Are there any specific sizes that need to be considered? What "human factors" need to be considered? What anthropometric data needs to be considered?
Function	What it must do? What is its purpose? Where will the product be stored? How easily can it be used/maintained?		

Develop design ideas:

See paper: develop design ideas.

Developing Ideas

Raheel



Develop design Ideas



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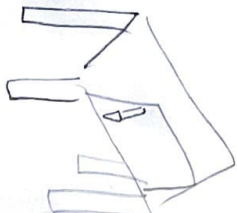
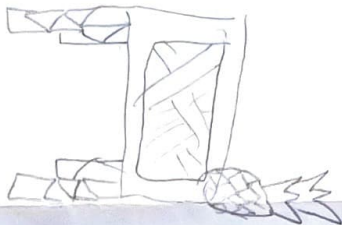
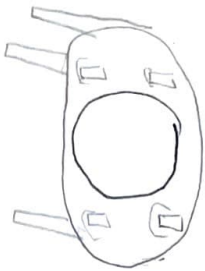
Date:

Develop Design Ideas (brainstorming)

Developing Ideas

Specification

- 1) least space needed
- 2) easy to adjust
- 3) not a lot of lining
- 4) beautiful



X

X

X



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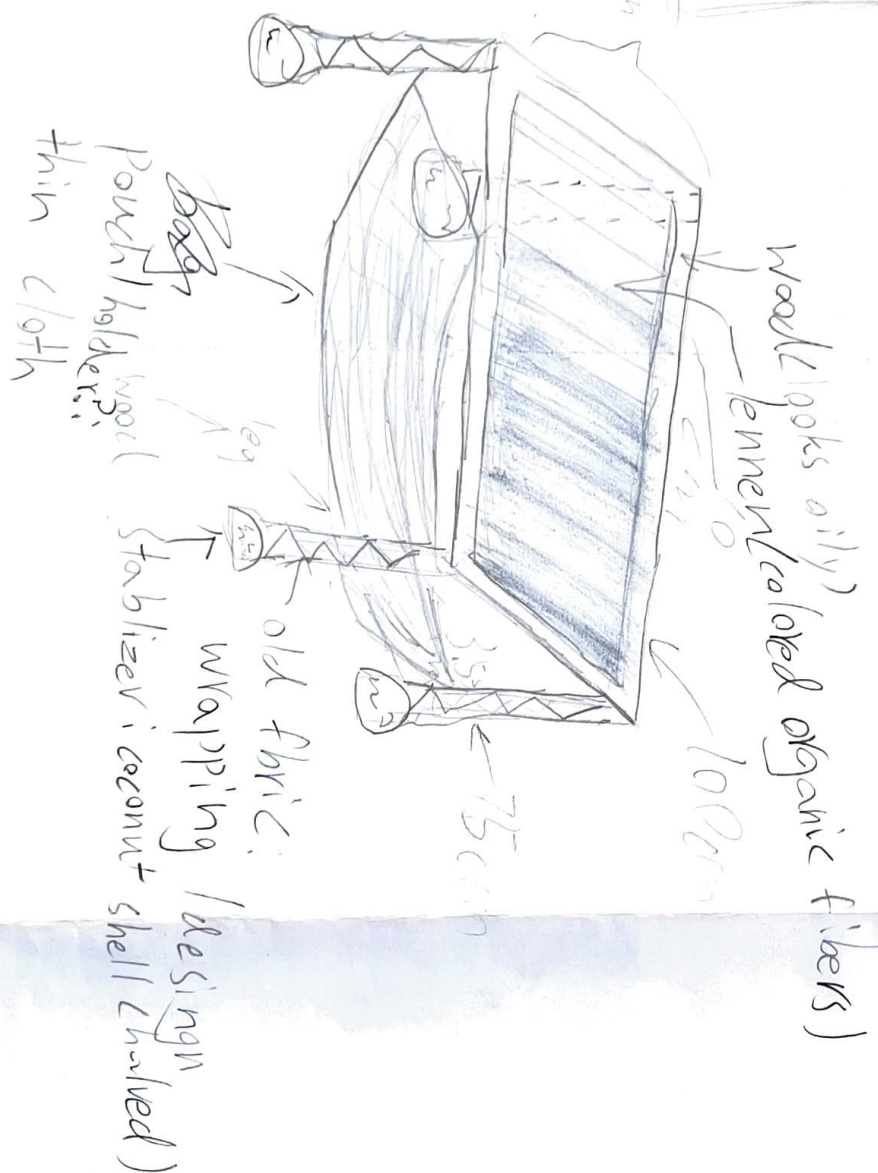
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Name: *Raheel T T*

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Present the chosen design:



Final Design

Developing Ideas