



Design Cycle Worksheet

Name: ayya

Grade: 6

Date: 12 sep 2024

Explain and justify the need: To enable to write at a comfortable level.

Identify and prioritise the research:

Benchmark table
Shapes, sizes, colours,
styles, number of parts,
material and heights

Analyse existing products:

Design	Strengths	Weaknesses	Opportunities	Threats
	It is very strong	Modern tables	You can write on it	Expensive hard to clean
	It is strong	You can only use one side	It can be joined	It is expensive
	It is strong	You can only use one side	You can put stuff in it	It is expensive

Develop a design brief:

- ① It should have four legs.
- ② Its measurement should be have a cup on a comfortable height holder.
- ③ You would be able to write comfortably on it.

Develop a design specification:

Aesthetics = The color will be black. The pattern will be checkboard.

Cost = Making cost is \$20. The selling cost is \$80.

Customer = Job People. They should be 20-30 years old, male

Environmental consideration = In homes it will not affect the environment.

Function = It must hold utensils and it can easily be sustained.

Manufacturing = Mica and wood. There are no limitations. In modern day it will take some minutes to make.

Materials = Mica and wood we have every material.

Safety = It is very safe.

Size = Table height is 60-80cm and 80cm and 140cm height and width.

Specific

Measurable

Achievable

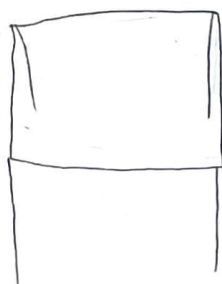
Realistic

Testable

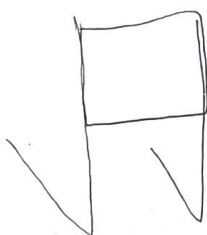
Aesthetics	Consider appearance, style, colour, shape/form, texture, pattern, finish, layout.	Manufacturing	What resources are available? Are there limitations as to how this can be created? How much time is needed to create the design?
Cost	Is there a maximum cost? Is this a material cost/time cost/selling 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:

Idea 1



Idea 2



Idea 3



Inquiring and analysing

Developing Ideas



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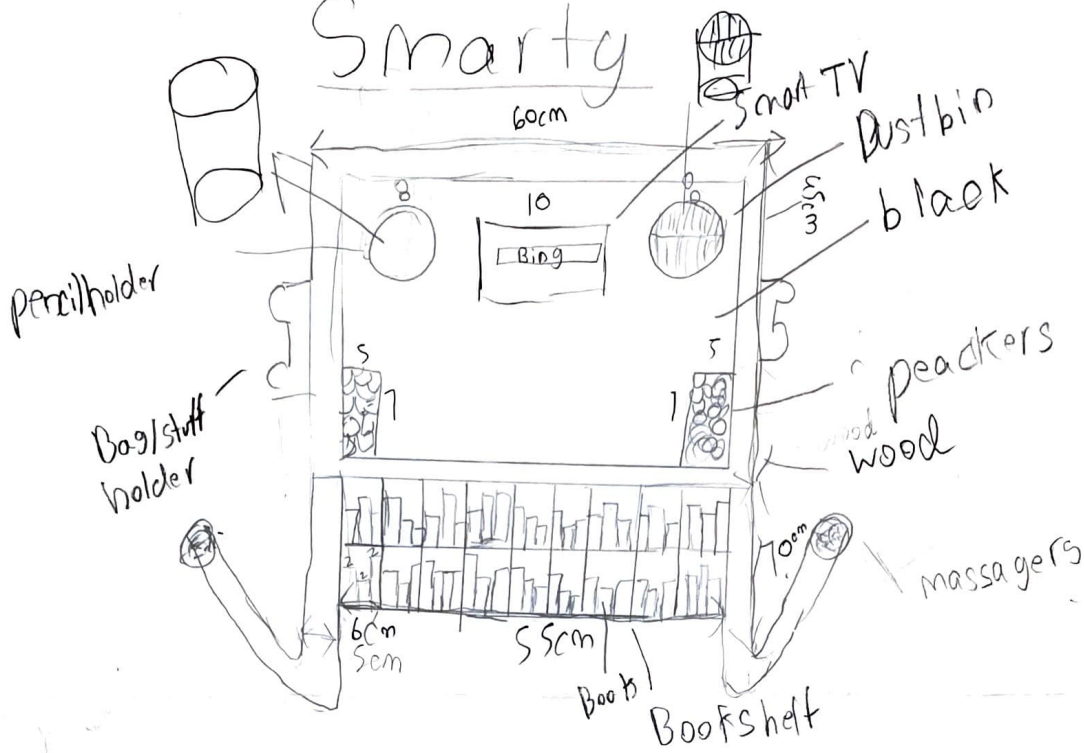
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Present the chosen design:

Smart table

Smarty



Developing Ideas

Materials: wood, glass, metal, etc.