



Design Cycle Worksheet

Name: Renben

Grade: 6

Date: 9.11

Explain and justify the need:

To enable to write at a comfortable level.

Identify and prioritise the research:

Benchmark 基准, 参照
table shapes,
sizes,
colours,
styles,
number of parts,
Material and heights.

Analyse existing products:

good, great, perfect, nice,
beautiful
square, grey, r
strengths Weaknesses Opportunities
let people - hard to add
write easier move wheels
use lighter material

Develop a design brief:

Use light materials to make it light and easy to move. put
r. Add wheels under each legs
It can adjust the height
(You can not to make this)
rubber at each legs
to let it will

Develop a design specification:

color: Shape: circle
Brown Material: Wood
Manufacture height: 75cm
time: 1 day diameter: 10cm
The wood is strong enough
Safety: Strong enough

4 legs
Customer: teachers,
for schools
Selling Cost: 188 yuan

Environmental considerations:
Used in classroom office
Function: used for studying and working

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?		

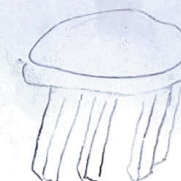
Develop design ideas:



shorter
(bottom square)



(bottom circle)



wider
(bottom square)

Inquiring and analysing

Developing Ideas



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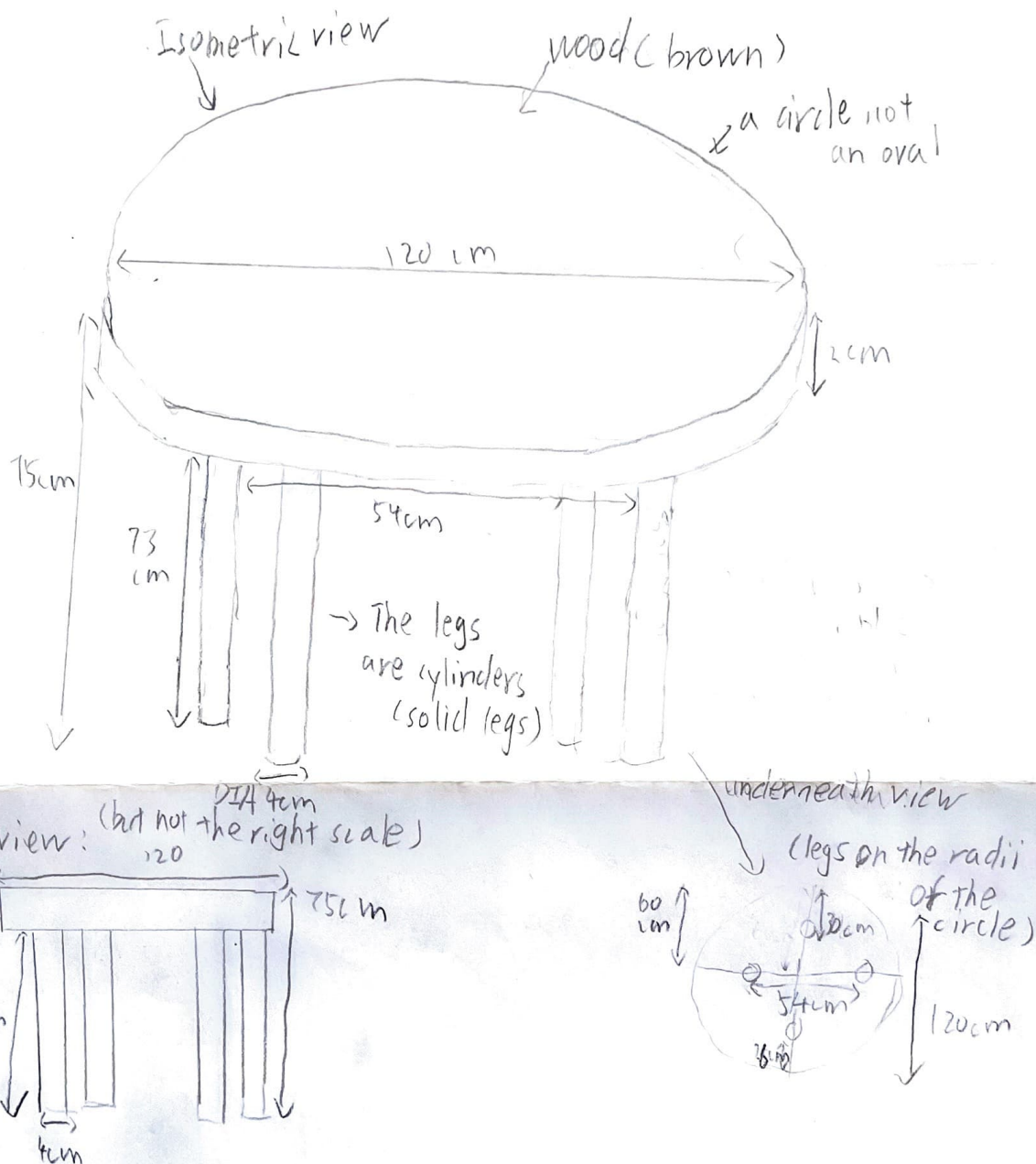
Name: Reuben

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Develop Design Ideas (brainstorming)

A Table



Developing Ideas