



HOME LEARNING 2020

YEAR 10 D&T STUDENT BOOKLET

Student Name: _____

Teacher: _____

Group: _____



Analysis of the Context - Sustainability

Potential Problems I have found for this brief:

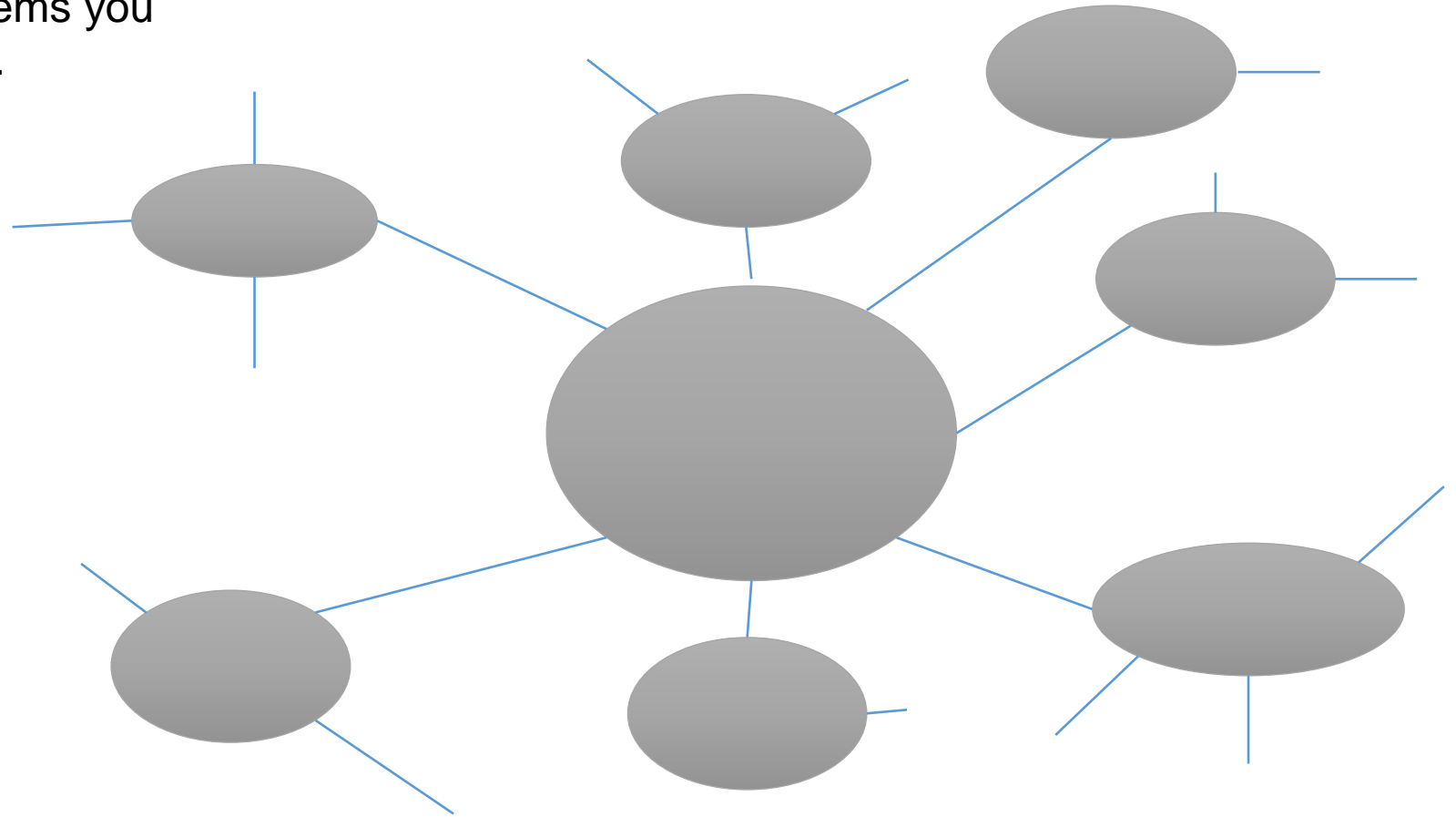
You need to list all potential problems you could see coming from each brief.

- 1.
- 2.
- 3.

Potential Products I have found for this brief:

You need to list all of the potential rough ideas for products you can come up with for each brief.

- 1.
- 2.
- 3.



User Profile / User Needs & Values

User profile:

Questionnaire:

Photo Of User

Level 6 and Up:

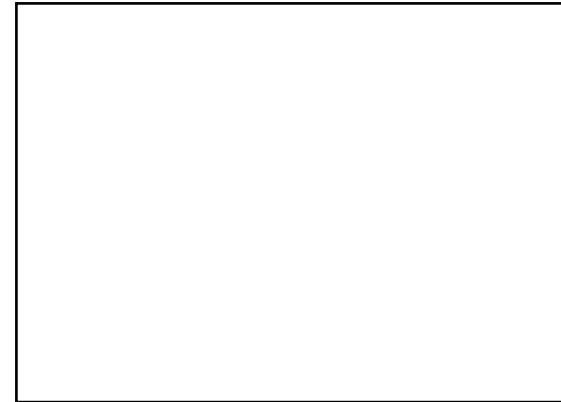
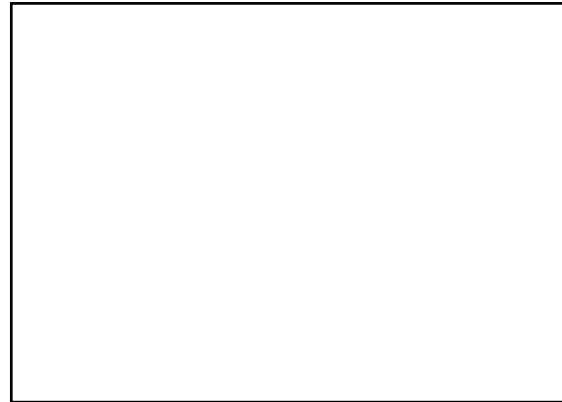
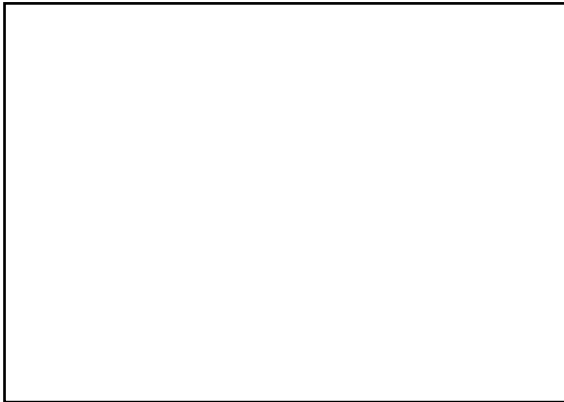
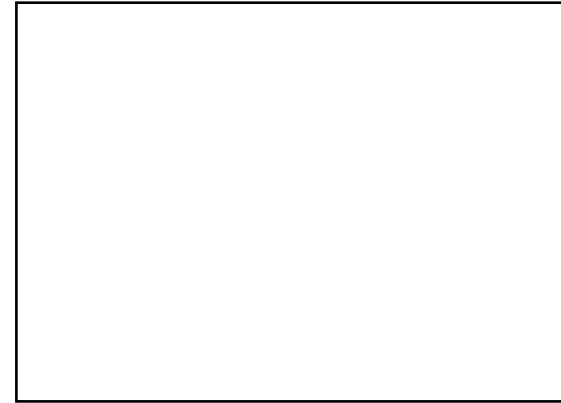
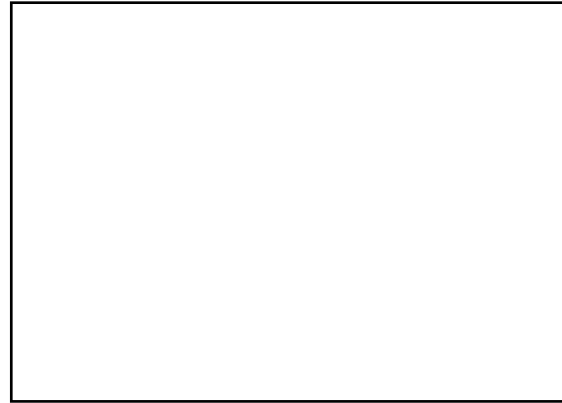
Talk about the user's values.
What do they truly value as a person.
Do they Recycle? Are they Vegan?
Do they buy sustainable products?

Conclusion (User Needs / Wants):

Research into chosen space

On this page you need:

- An introduction box
- Images of the area
- Discussion about the **SPACE**
- Problems you have found
- Possible spec points



Level 6 and Up:

Possible Specification points:

Make a list of some specification points that you could add to your final spec from your research. What have you found that will be useful?

Problems I have found:

You need to continue to find problems. Try to find as many problems with the space and what's in it.

Think about:

- **The space- what might get in the way?**
- **How is the space used?**
- **What mess there is?**
- **What specific products are there?**
- **Any more problems you can see?**

Research into the products

On this page I am looking at the specific products that are causing a problem and will analyze them in terms of their size and their shape. You must do the same for your own context.

Images of the products
with key measurements

Images of the products
with key measurements

Images of the products
with key measurements

Possible Specification points:

Problems I have found:

Product Analysis

On this page I am going to complete a product analysis of existing products which are similar to what I may design. I will use all of the key words when conducting the analysis.

Images of the Product

Images of the Product

Problems I have found:

You need to continue to find problems. Try to find as many problems with the products you are analyzing. Think about:

- **Cost**
- **Materials**
- **Size**
- **Sustainability**

Level 6 and Up:

Possible Specification points:
Make a list of some specification points that you could add to your final spec from your product analysis.

Research Summary & Potential Briefs

Research summary:

Write here what you have discovered from your research?

This needs to be a detailed summary of everything you have found out / which method of research worked the best / What have you still got to research or find out?

Images related to your project

You need to write out up to 4 different briefs for the product you will design and manufacture:

Possible brief 1:

Possible brief 2:

Possible brief 3:

Possible brief 4:

Thoughts about the briefs:

Write here which brief you think is the best and why not the other three.

Level 6 and up: (User opinion of the briefs)

Talk to your user and get them to discuss the briefs and tell you which one they prefer from all four. Make sure they give reasons as to why the chosen one is their favourite!

Final Brief and Specification

Final Brief:

Problem I am solving:

Heading	Spec Points	How they will be tested
Function	<ul style="list-style-type: none">• My product will• My product will• My product will• My product will• My product will	I will
Form	<ul style="list-style-type: none">• My product will• My product will	I will
User	<ul style="list-style-type: none">• My product will• My product will	I will
Materials	<ul style="list-style-type: none">• My product will use• My product will use• My product will use	I will make sure
Size	<ul style="list-style-type: none">• My product will• My product will• My product will	I will measure
Safety	<ul style="list-style-type: none">• My product will• My product will• My product will	I will make my product
Environment	<ul style="list-style-type: none">• My product will• My product will	I will
Quality	<ul style="list-style-type: none">• My product will• My product will• My product will	I will check
Manufacturing	<ul style="list-style-type: none">• My product will• My product will	I will check
Sustainability	<ul style="list-style-type: none">• My product will• My product will	I will check
S.M.E	<ul style="list-style-type: none">• My product will• My product will	I will



Level 6 and up

Inspiration Board

Potential Spec Points:

Initial Ideas

Initial Ideas

Development After Feedback

User opinion of the developed designs

Talk to your user and get them to discuss the ideas you have come up with. Get them to comment on which one they prefer and why. Ask them about Form, Function, Cost, Materials etc....

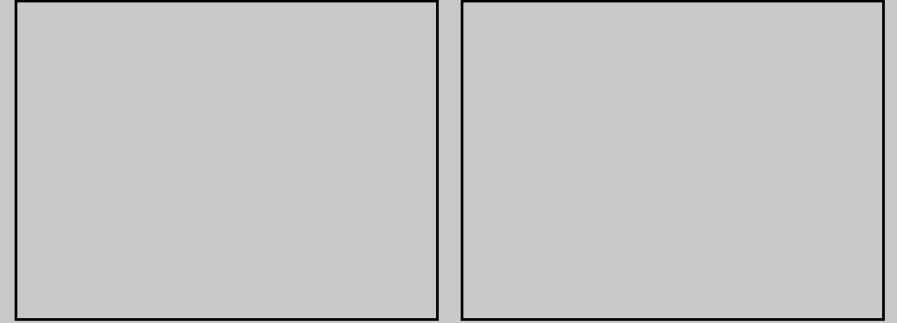
Development After Feedback

Sketch up Engineering Drawing

Sketch up Final Design

Level 6 and up: Extra Details

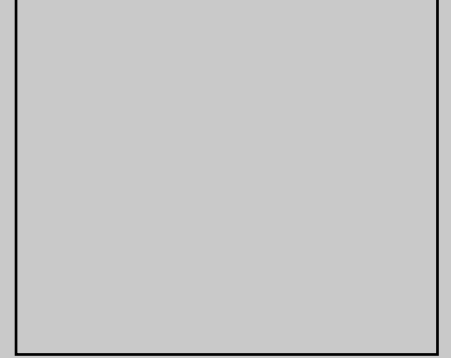
Could you add any detailed views that are particularly technical or would benefit from being shown using an image?

Two empty rectangular boxes with black borders, intended for sketching detailed views. The boxes are side-by-side and occupy the lower half of the gray section.

Extra Research

Level 6 and up: Ergonomics

Could you add any ergonomic information about your product? Hand sizes / Arm length / Feet size



Potential Spec Points: