

Product Design

54321

The following slides are a starting point of this amazing course. An opportunity for you to show me your understanding of design, ability to research and willingness to sketch. Feel free to present this work in any way, remember you are on a design course. Please adapt as you wish, not all need to be sketched, not all need to be photographed, but you might wish to add others. Quest 5 requires you to sketch 5, quest 4 calculate 4, quest 3 research 3, etc

Photograph and sketch the following

Each should be on an A4 page.

Please use any method of sketching and any number of photographs

A lampshade

An interesting cup or mug

A clothes peg

A pp3 battery

A composite material

A chair

A pencil sharpener

A USB charger

A flowerpot with plant

A product you think Wow

Arts and Craft or Art Deco item

A thermochromic or photochromatic object

A mobile phone in a stand



Calculate the following

The floor area of
a room

The cost of 120
pizzas

The volume of a
can of beans

The volume of a mug
or cup

Number of watts
used by a kettle

The height of a tree
(Do not climb the tree)

Three sets of cutlery

Please select cutlery that is made from different materials. Perhaps a set made from stainless steel, a disposable set etc.....

- 1. Photographs*
- 2. Explore the manufacturing methods of both and compress those to one A4.*
- 3. What are the user needs of that cutlery?*
- 4. Explain the environmental impact of the material.*
- 5. Why was that material chosen to manufacture the cutlery?*

- 6. What are chopsticks traditional made from?*
- 7. Explain why.*

Garden furniture

Please select two garden furniture sets from different material categories.

- 1. Photograph two examples of similar garden furniture*
- 2. Explore the manufacturing methods of both and present on on A3 page*
- 3. What are the user needs of that type of garden furniture?*
- 4. Why was that material chosen?*
- 5. Explain the environmental impact of the material.*



Ergonomics

1. Find a great example of an item that has been ergonomically designed.
 2. Photograph and sketch.
 3. What makes it a perfect example?
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1. Find a poor example of an item that has been ergonomically designed.
 2. Photographed and sketched.
 3. Why is this a poor example?
 4. How could you improve the ergonomic aspects of the item?
 5. Sketch the improvements