CRITERIA   2

17222835J

Bedside Table (Mind Map)

Bedside Table

- **Materials**
  - **Sustainability**
    - 3 Pillars
    - Carbon Footprint
    - LCA
  - **Natural**
    - Stone
    - Wood
    - Wool
    - Leather
  - **Man Made**
    - Plastic
    - Resin
    - Metal
- **Design**
  - **Sizes**
    - Size of Room
    - Height of User
    - Height
      - Volume
      - Width
    - Size Wanted
    - Space Available
    - Size of Bed
  - **Style**
    - Scandinavian
    - Industrial
    - Modern
    - Simplistic
    - Steam Punk
    - Art Deco
- **Functions**
  - **Power**
    - Light
      - In-built Lamp
      - Mood Lighting
      - Draw Light
    - Powerpoints
    - Sliding/hidden Power Board
    - USB Ports
      - USB-B
      - USB-C
    - Charge Speed
      - Charge Amp
        - 2
        - 2.4
        - 1
      - Laptop Charger
  - **Drawers**
    - Powered
    - Sliding
    - Hanging
    - Pivoting
- **Location**
  - **Bedroom**
    - Space Available
    - Existing Style
    - Accessibility
    - Usability
    - Surrounding Environment
  - **Environment**
    - Climate
    - Humidity
    - Temperature
    - Plants/Greenery
      - Cactus
      - Flowers
      - Ferns
      - Herbs
      - Creepers
      - Vines
      - Hanging
        - Over the Edge
        - Flowing
        - Underneath

Material	Cost	Finish
The materials used in the design should be strong and durable, able to withstand knocks and bumps, as well as anything else that might be dropped on it	The budget for this project is about $300, so the product should be designed with minimal material waste to maximise savings	The finish of the design should leave the natural wood showing, to maximise the aesthetic of the product. It must also be durable, and should help protect the wood
Safety	**Ergonomics**	**Appearance**
The product must be design to be same to use, and have minimal points of potential risk, such as pinch points, and spikes that could hurt if run into.	This product must be design around ergonomics. Being a bedside table, it must be easy to use at night, in low/no light conditions	This product must suit the room, providing a focal point, without being overbearing or distracting, whilst remaining practical
Quality	**Design**	**Colour**
The product should be designed and built to with an extreme focus on quality, particularly with the joints, to ensure the strength, durability and longevity	This product is being design to suit as a bedside table, and therefore it should be easy to use, provide storage space, and be practical	The colour of the material used should be one that suits the room, and should be the natural colour of the wood used, but can be affected by the finish, such as intensified/deepened no problem

VTA
This product uses mirrors on its exterior, providing an appealing aesthetic, and give the effect that a room is bigger than it actually is, and has symmetrical detailing. This would not be suitable for my client however, as the mirrors would require constant cleaning, limiting the designs practicality.

Sustainability
This product would not be very sustainable as it heavily features metal and glass, which both have large carbon footprints and would likely have high distribution distances. This would not be suitable for my client, who has requested the product to be as sustainable as possible

Materials
This design makes use of a metal frame, which provides a strong, durable and rigid structure for the product to be built upon. Wood was used for the interior of the product, which has a lower density than metal, and therefore less weight, making it ideal for moving components such as the drawers. The exterior of the design however is covered in glass mirrors. This would not work for my client as glass is easy to shatter and scratch, and the client has requested for the product to be durable and hardy, which glass is not

Sustainability
This product was made with locally and responsibly sourced wood, reducing its carbon footprint, and lowering it distribution distances. This would suit my user, who has asked for the product to be as sustainable as possible.

User Comments:
This design is pretty cool. I love the rustic feel to it, and the matte black handles are pretty cool. The grain structure of the wood is also a nice touch, I love the pattern it forms, and the recess side wall it cool too

VTA
This design uses a more rustic, natural style, evident through its use of wood and blackened metal. The design remains modern though, with symmetric details, with sharp lines and muted colours. This would suit the user who has requested a modern influenced design

UCD
This product provides ample storage space for the user, with three drawers and a table top. However this design would not work for my user who has requested space to store a subwoofer be included in the design, which this one doesn't

VTA
This product has a natural, matte finish, as well as clean, sharp lines, giving it a more modern appeal. The colour palette of the product though is a light/dark alternating pattern, giving the product a more classic appearance. This design would work for my user as it provides a more modern influenced appearance, whilst also playing with the contrast between the differing coloured of the woods being used

Sustainability
This product is almost entirely made out of responsibly sourced wood, greatly reducing its carbon footprint. It is also likely that the wood was sourced locally, reducing its transport distance, and subsequent CO_2 emissions produced during its transport. This design would work for my user as it is very sustainable, with the only part having a high carbon footprint being the small handle on the drawer, fulfilling the users asks

UCD
This product has two massive drawers, providing plenty of storage space, as my user has requested, as well as a large table top, and also includes an in-built power socket, and USB plugs, making it incredibly suitable for my teenage user.

VTA
This design uses a more basic design style, representing a more traditional bedside table. It has a square shape, with sharp lines, and an interesting choice of colour and contrast.

VTA
This product also uses a more basic, yet very compact design. It is based on a square shape, with a large top surface, and sizeable drawer underneath, and is made from a warm coloured, matte finished wood, suiting my user

Sustainability
This product uses a very sustainable design, with even the drawer handle being replaced by a cut out hole, cutting carbon footprint, and suiting my user

User Comments:
This design incorporates tech quite well, with the power adapter in the back corner. However, their is no storage in the top 3rd of the unit, which I think is a bit of a waste of space. I also don't like the gap between the drawers and the outer walls, and the drawers are really hard to open. Once open though, I do like the size of them, they are massive, which is great.

UCD
This design is purpose built for the user, a tv editor, with space for three monitors, and a seperate, lower section for the keyboard and mouse, promoting better posture, comfort and ergonomics. This design shows how my product can be tailored to my user

VTA
The design of this table is mainly black, with orange detailing highlighting the edges and various changes of line angle throughout the product. This would suit my user as it adds a unique touch to the design

Materials
This product has been made with a metal frame, which provides strength and durability to the design, whilst the table tops have been made from manufactured board, which helps to comparatively reduce the weight of the product, compared to other design options. This would suit my user who has stated that the product will be moved around quite often, and should be strong yet relatively lightweight

VTA
This product uses naturally finished wooden planks for the table top, being light brown in colour. It is a basic rectangle shape, contrasting against the weathered grey deck, painted house, and white cushions on the chairs. This would suit my user as it has a modern, clean design, which he has requested.

Sustainability
This product was made from responsibly sourced wood, however it was not locally sourced, causing the product to have a high distribution distance, not suitable for my user who would like his product to be as sustainable as possible

UCD
This design allows for easy access to and from the table, and the table itself is at a good height for eating, showing that anthropometric have been used. This suits my user as it is practical for it designated task

User Comments:
This design is quite cool, with the orange detailing providing a unique look and aspect to the design. The way it has been designed around the user is also cool.

Sustainability
This product was made with a frame made from responsibly sourced wood, however it was not locally sourced, increasing the products overall impact on the environment, due to the higher transportation distances of its materials, which would not suit my users needs, as he wants something as sustainable as possible

User Comments:
This design is pretty cool, suiting the house as well. Responsibly sourced wood is always a good thing, and I like how the two tables combine

Purpose, Function & Context
This primary design function of thesis product is being a bedside table, with plenty of tabletop storage available. This product also has the secondary functions of including a drawer, and a storage area underneath. This design would suit my user, as it has everything he has asked for in his product design.
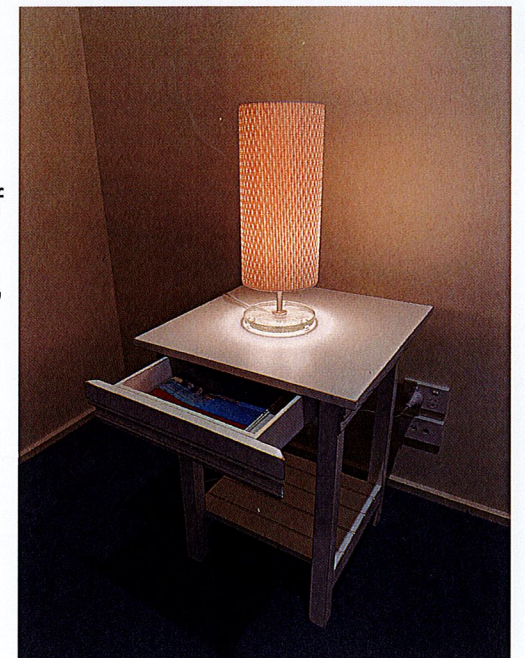
UCD
This height of this design matches the height of the bed, making it comfortable to use, and means that the drawer is easy to access. This shows that ergonomics have been considered in the design, a factor that my user has requested for his product

PFC
This table has been designed for a music recording studio, with plenty of space for computers and equipment, as well as having a secondary function of a dedicated space for a control panel. This would suit my user as it shows how products can be tailored to their end user.

VTA
This design makes use of dark coloured materials, being wrapped in leather. This provides an appealing texture, not commonly seen on table, and would suit my user as it uses a unique, purpose built design, which my client is looking for

VTA
This product has a more basic overall design, made from whitewashed wood, with the natural wood being exposed to provide detailing to certain areas fo the product. This would suit my user as it provides a modern look.

Sustainability
This design isn't very sustainable, as the product was made without locally sourced wood, and didn't say if it was responsibly sourced, which wouldn't suit my user

Sustainability
This product has been made from locally and sustainably sourced wood, meeting my clients sustainability views

PFC
This product is similar to the one above, whoever lacks the secondary function of having a drawer included, which would not suit my user, as he has specifically requested a drawer be included in the design of his product

VTA

This design has an unusual, unique feel, as it has been made from a once living animal. This is a unique idea, and would provide the user with a product that literally no one has, or will ever have, as no two sheep are the same. The wool also provides a warm, soft texture, perfect for the bedroom environment

VTA

This product features a unique design, inspired by a stack of books. This mixes curves with sharp lines, and a cool white colour to provide an unusual, appealing, modern design, which makes a statement, without being too brash about it, a potential inspiration that suites my users requirements

UCD

This design blends creativity with practicality. The unique design of the stack of books allows for plenty of storage, within the books, which would meet my user's needs, as well as having multiple levels of table top storage, which also meets my users needs

PFC

Whilst being unique, the product remains true to its purpose of being a useable bed side table, making use of what was the sheep's chest cavity for a drawer, which the user has requested, as well as mounting a table to the sheep's back, where the user could also store items such as his fan, which he has requested.

User comment:
The lamb design is awesome, I don't think I've ever seen anything like it. I mean, it would be kinda creepy having that watch you all night, but the design is unlike anything else. The wool would also provide a really, soft, warm feel, perfect for the bedroom
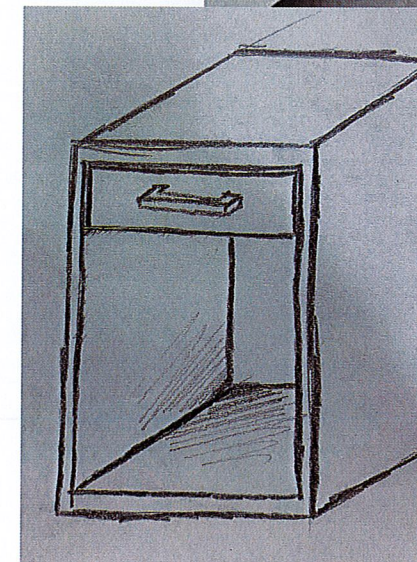
User comment:
This book design is also very unique. It provides an awesome focal point for the room, and its white colour would contrast well with most books. However the shape of it would make it nearly impossible to store anything other than books, making it it pretty unpractical to use. The wheel it is mounted on however would make it easy to move, and being made of metal, I would imagine the design would be very strong.

VTA

This design is heavily centred around being practical for book lovers, and demonstrates how design can be influenced by purpose. Sharp angles allow to the books to be held in position, keeping the page, the cool white colour matches that of the books, and the diamond centre provides storage for books, combining both modern design and practicality

UCD

This design demonstrates how much a product can be tailored to the user, representing in colour and form the users love of reading, whilst remaining practical, with a small table surface perfect for holding water and the users glasses, and angled edges to hold the users book open

VTA

This design provides a unique influence, being made from old stairs. It embraces a weathered, worn design, with a peeling paint finish contrasting yet complementing its environment

Sustainability

This design provides an example of how sustainability can be used in design, re-using and re-purposing an existing product, instead of having a new product made

Sustainability

The product is made from metal, and a lot of it, which is highly energy and carbon intensive to mine and process, meaning that the product isn't very sustainable. This wouldn't suit the user of my product, as he has requested for it to be as sustainable as practically possible

VTA

This product design has a very odd feel to it, with a sumo wrestler kneeling to support the table on his back. The design is made from a smooth textured plastic, with a semi-shiny finish, and a round glass top. The use of these materials gives a modern design, with the black belt breaking up the design. This design could be used as inspiration for my user as it provides a unique perspective on potential table designs.

VTA

This design is made from metal, giving a cool, creepy visual to the octopus its cast from. Its tentacles curve up to hold the glass table top, with one curling over the edge, giving a sense of movement. This could be used for my user as it give the product a unique feel and presence.

User Comments:
These design are really cool. The octopus is awesome, and I really like it, in a weird way. The light crystal table however is seriously cool, I love it, and have never seen anything like it. The jet engine one however, that is just crazy, I love it.
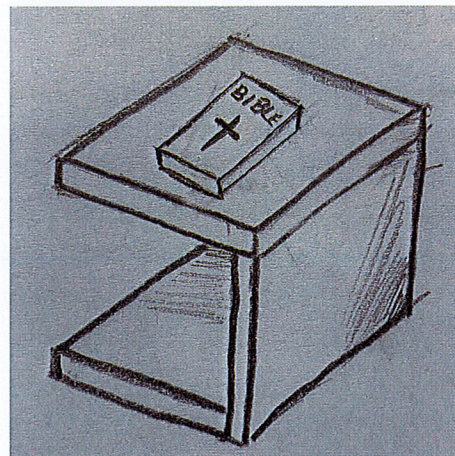
Innovation & Creativity

The design of this table is extremely creative, using cultural traditions to push the boundaries of table design, in a very unique way. This would suit my user as it provides an example of the breadth of potential inspirations

Purpose, Function & Context

The table has clearly been design with Japanese culture in mind. In keeping with the context of its environment, with sake and bamboo sitting on it, the design has remain functional whilst also representing Japanese culture in a new way. This would suit my client as it provides inspiration on new ways to tie in culture to the product design

PFC

This table design has a layered design, with plenty of storage space. The top section rotates so that it can be used as a seperate table or desk, and rotates back to line up with the rest of the unit. This allows it to occupy less space when being used, which is a good secondary function idea that could be used for my users product.
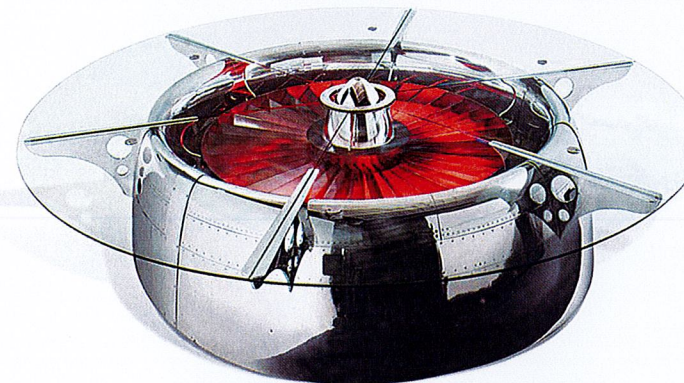
VTA

This product creates a stunning effect with light shining on it being refracted and then reflected onto its surrounds, in multiple colours shapes, whilst also illuminating the table itself. This would suit my user as it provides a unique design, that is still practical.

Innovation & Creativity

This product makes use of innovation & creativity in the way that it absorbs and reflects light onto its surroundings. The product makes innovative use of angles gem style pieces of coloured glass to take in natural light, both illuminating itself, and reflecting it onto its surrounds, which meets the users ask of innovative design

VTA

This product design feature a very modern, minimalistic Scandinavian design. The white upper section contrasts against the dark matte wood of the base, with a glass table mid section separating the two. My client has asked for the product to have a Scandinavian influenced design, and this product provides an example of that through its muted colour palette, matte finished wood, and sharp lines and edges

Materials

This design makes use of the forward nacelle and fan blade of a repurposed jet engine. This provides the table with a high degree of strength and durability. Glass have it the property of transparency allows the design to always be on display. This would suit my user as it provides a unique combination of material properties

Sustainability

This product features a more sustainable design as it has up-cycled an existing product that would've otherwise been sent to scrap, greatly extending its lifecycle, reducing its overall impact on the environment. This would work for my user as he has requested for his product to make use of sustainable design
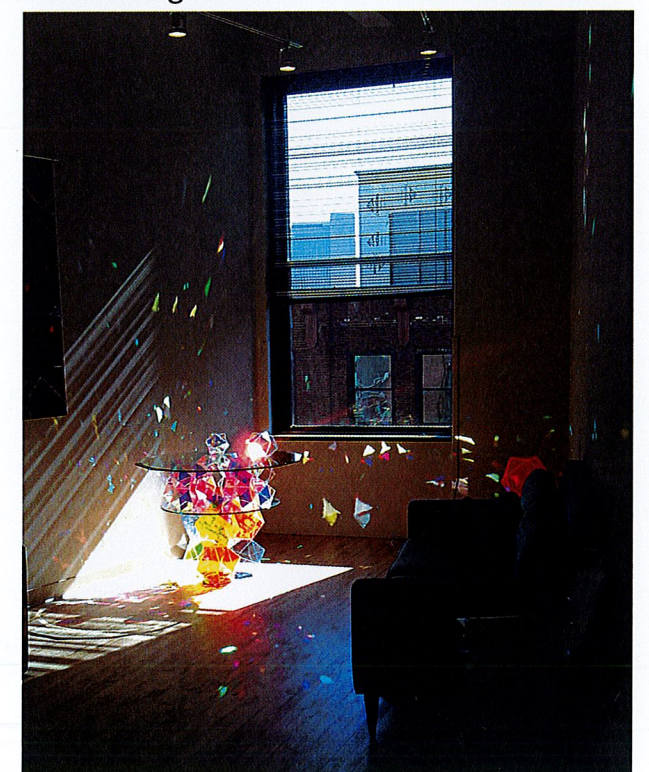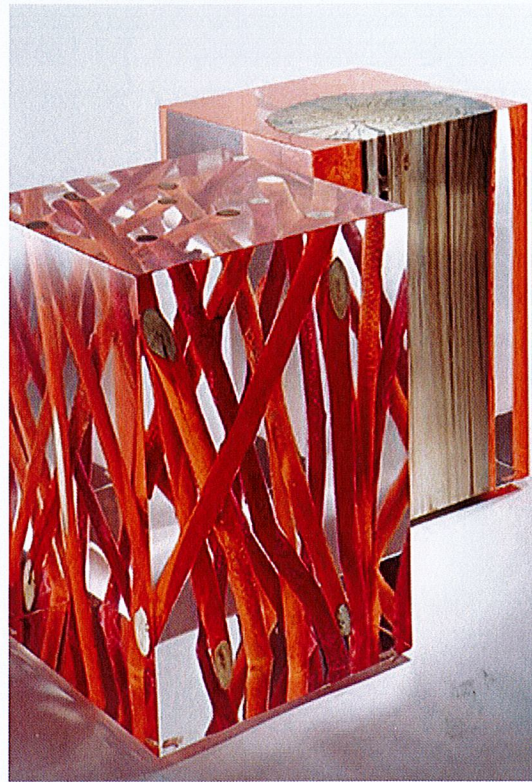
VTA

This stool design provides amazing visual, using dyed natural branches, suspended in a clear acrylic, almost as if they are floating. The acrylic also provides a unique effect, changing the perception of depth. This would provide my user with a unique design, and would contrast well with his white room

UCD

Whilst featuring a unique design, the product remains practical for the user. The shape of the product, having a large square base, would keep it steady and stable, which also keeps it safe for use when in use. This would suit my user as the product remains practical, whilst incorporating amazing design

Materials - Properties & Characteristics

The acrylic used in the design provides a clear finish, so the user can see the branches within. The acrylic provides a depth bending effect, whilst providing a strong, durable stool. This style would suit my user as it provides a unique design, without removing from the products usability

VTA

This design makes use of an interesting element, removing the more traditional flowers that would be the centrepiece of the table, and replacing it with grass. The green contrasts well again the wood of the table, and looks soft and aesthetically pleasing, contrasting with the hardness of the table. This would meet my users requirements providing unique design whilst retaining practicality

UCD

The design of the table incorporates both the unique design of the table, with the grass centre, whilst maintaining practicality for the user, which plenty of table space. This would suit my user, who has requested unique design, and needs table space

VTA

This table design takes industrial and garden styles, and combines them to make a dining table. The top of the table is covered with soft, lush grass, contrasting with the metal frame and wooden benches. This design would suit my user as it provides a unique design, whilst minimising the reduction in practicality

Materials

The table makes use of grass to from the top layer of the table top, a soft, eco-friendly design. This would also be practical as the dirt that would be beneath the grass would absorb any liquid spills that occur, reducing the mess and amount of cleanup required. This would suit my user as it is a unique, not commonly seen design that has real benefits

VTA

This table design uses layered wood and dyed acrylic to provide an amazing, ocean inspired depth effect, almost like a 3D map of the ocean, with the colour changing depending on depth. This provides the user with intriguing visuals, and would suit my user being so practical, with no table space being lost, with the unique design integrated into the shape of a more traditional table

UCD

This design is centred around the user, providing an incredibly unique design, whilst retaining a shape and size similar to a more traditional coffee table. A style like this would work for my user, as it provides a unique design in a traditional format

Sustainability

The design of the table helps to improve its overall sustainability, something my user has requested, by incorporating green design, in a funky, innovative way. The design shows that sustainable design can go beyond just the primary function, and provides green space for somewhere like an apartment, where outdoor space may be limited. This meets my users requirements of being as sustainable as possible, without affecting quality

Innovation & Creativity

The design of the table is incredibly innovative, taking a traditional style, and using new, less traditional materials to create a completely unique product, radically different in execution to anything else. This would suit my client as it maximises its unique design, whilst remaining practical and useable

User Comments:
These design are freaking nuts. The 3D resin table is seriously cool, it looks awesome. I love how it disappears into deep blue, its really cool. I also really like the table with the grass in the middle. It contrasts really well with the wood, and provides a unique touch to the design. My favourite however is the wood in resin stool. It just looks awesome. The colours of the wood work really well together, and having the log preserved like that is really cool, being able to see the grain

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Research Bibliography

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17222835J

Fast pen
Non uniformal
overlap
be messy
do not be careful
fast
no single lines
Construct
several directions

Bed side table
simple
environment
natural
Organic
fun
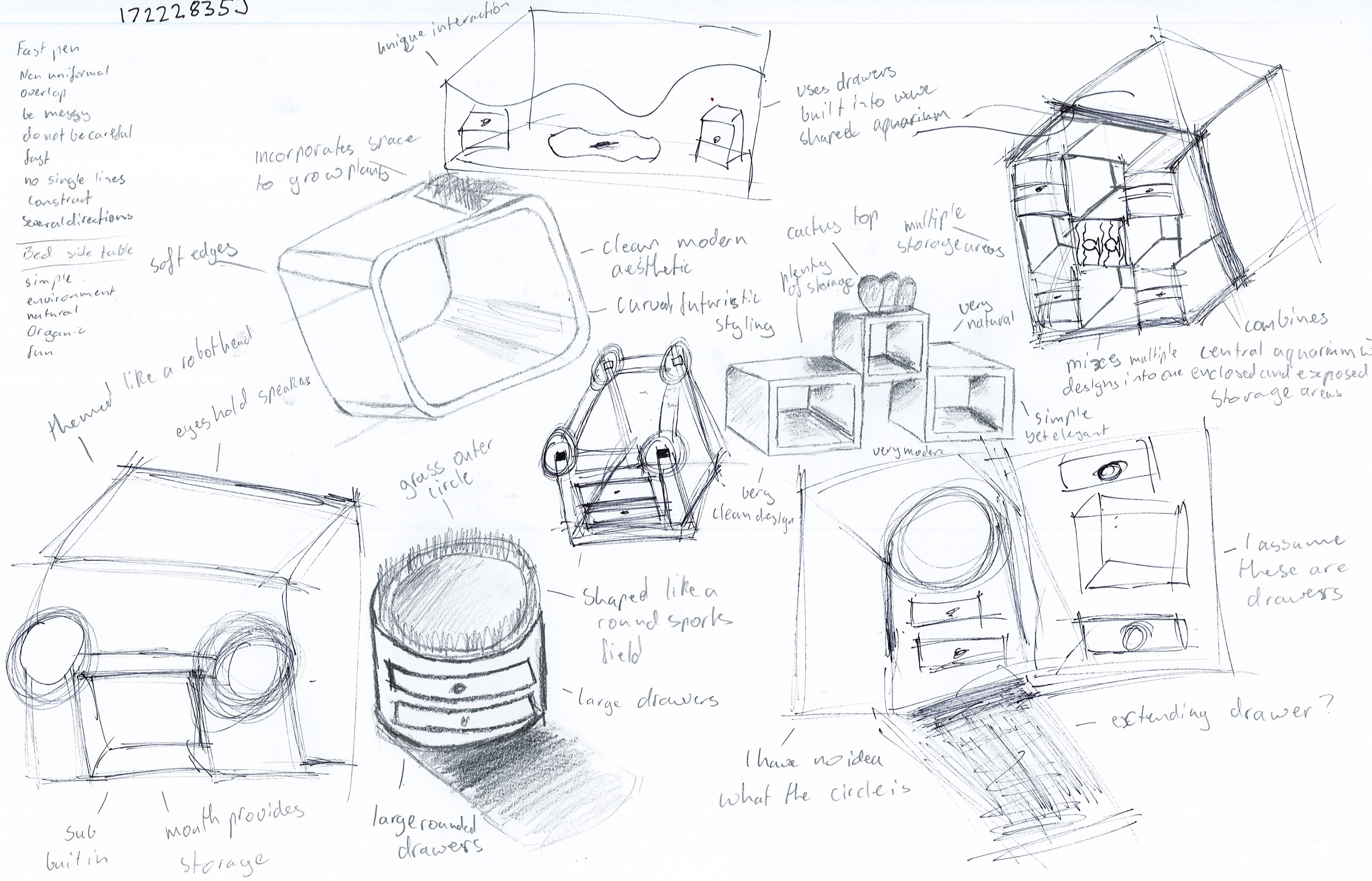
unique interaction

Incorporates space
to grow plants

uses drawers
built into wave
shared aquarium

soft edges

— clean modern
aesthetic

— Curved futuristic
styling

cactus top

multiple
storage areas

plenty
of storage

very
natural

combines

mixes multiple
designs into one

central aquarium w/
enclosed and exposed
storage areas

themed like a robot head

eyes hold speakers

grass outer
circle

very
clean design

simple
yet elegant

very modern

— I assume
these are
drawers

Shaped like a
round sports
field

— large drawers

— extending drawer?

Sub
built in

mouth provides
storage

large rounded
drawers

I have no idea
what the circle is
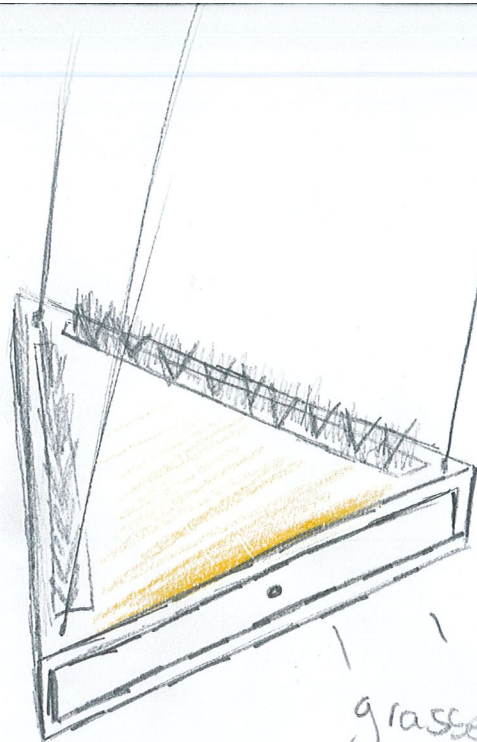
hangs from
roof

- gives semi
floating effect

inbuilt drawer

grassed edge breaks
up sharpness of triangle
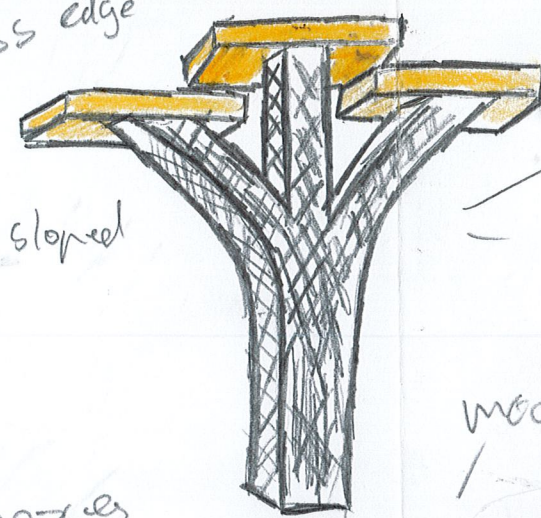
large table

sleek
modern
design
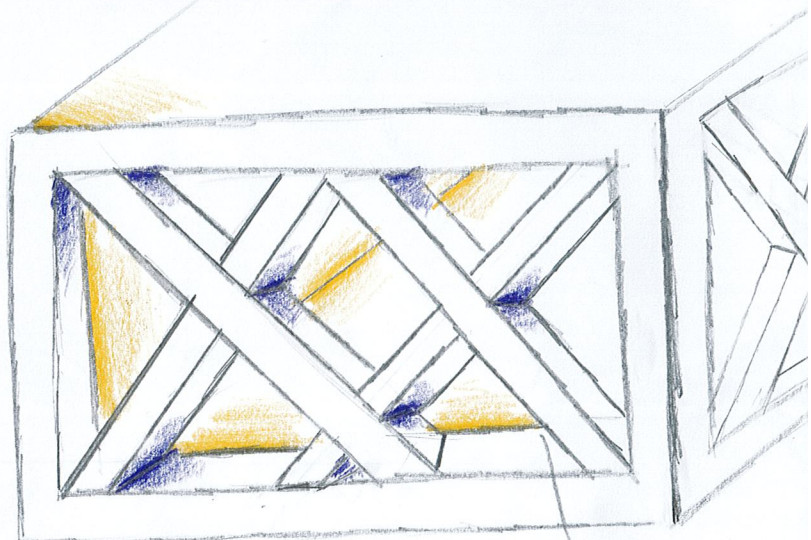
lattice like front

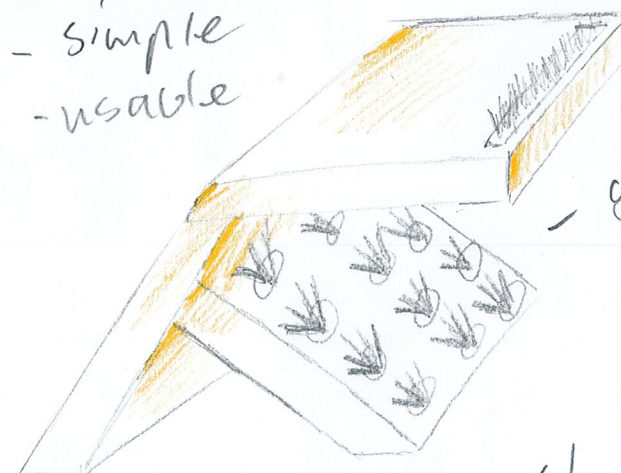interior
storage

- stacked
storage
cubby
- simple
- usable

grass edge

green sloped
wall

storage room for
sub

tree inspired

3 levels of
storage

modern design
greenery

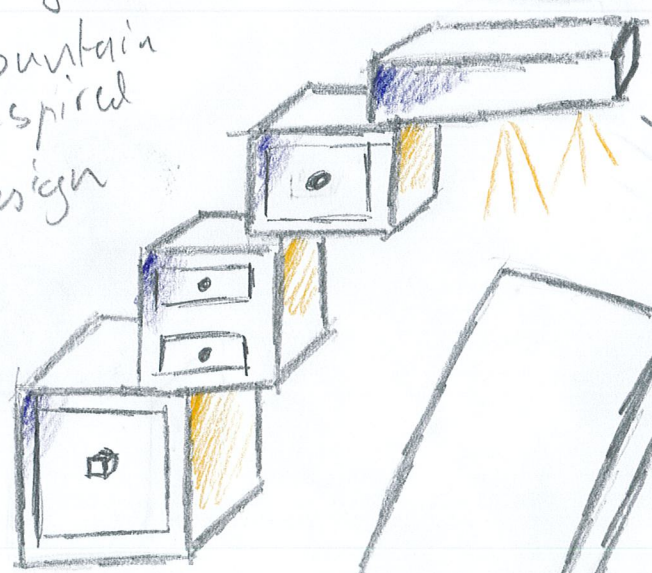traditional
design

simple
practicality

horseshoe
inspired

angular
mountain
inspired
design

stacked boxes
to drawers

spot for overhead light
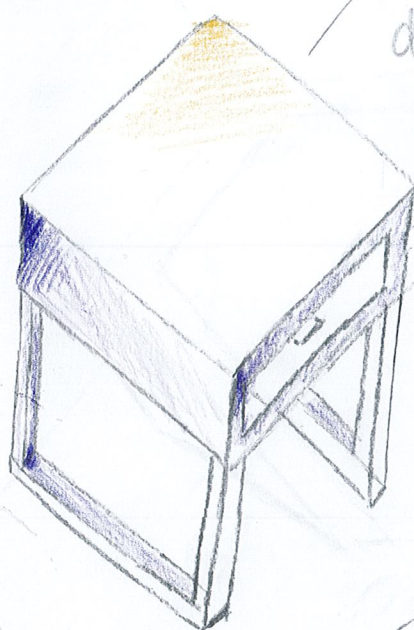
balanced
connected
design
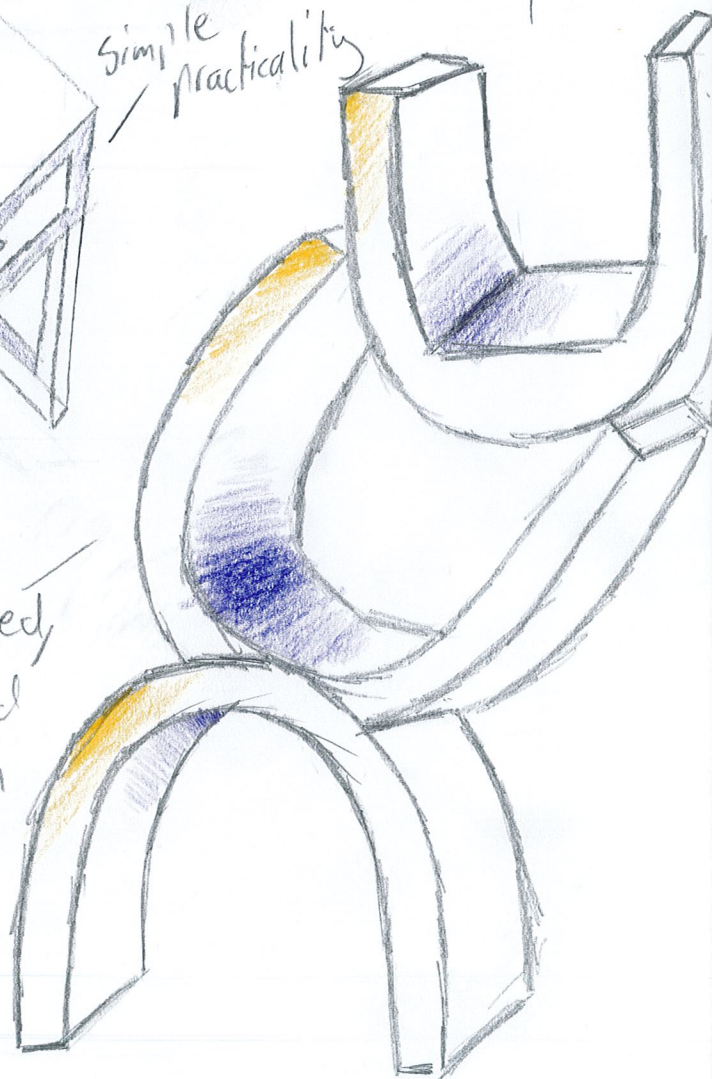
- tunnel
shapes
- stacked
tables

plenty of
storage space
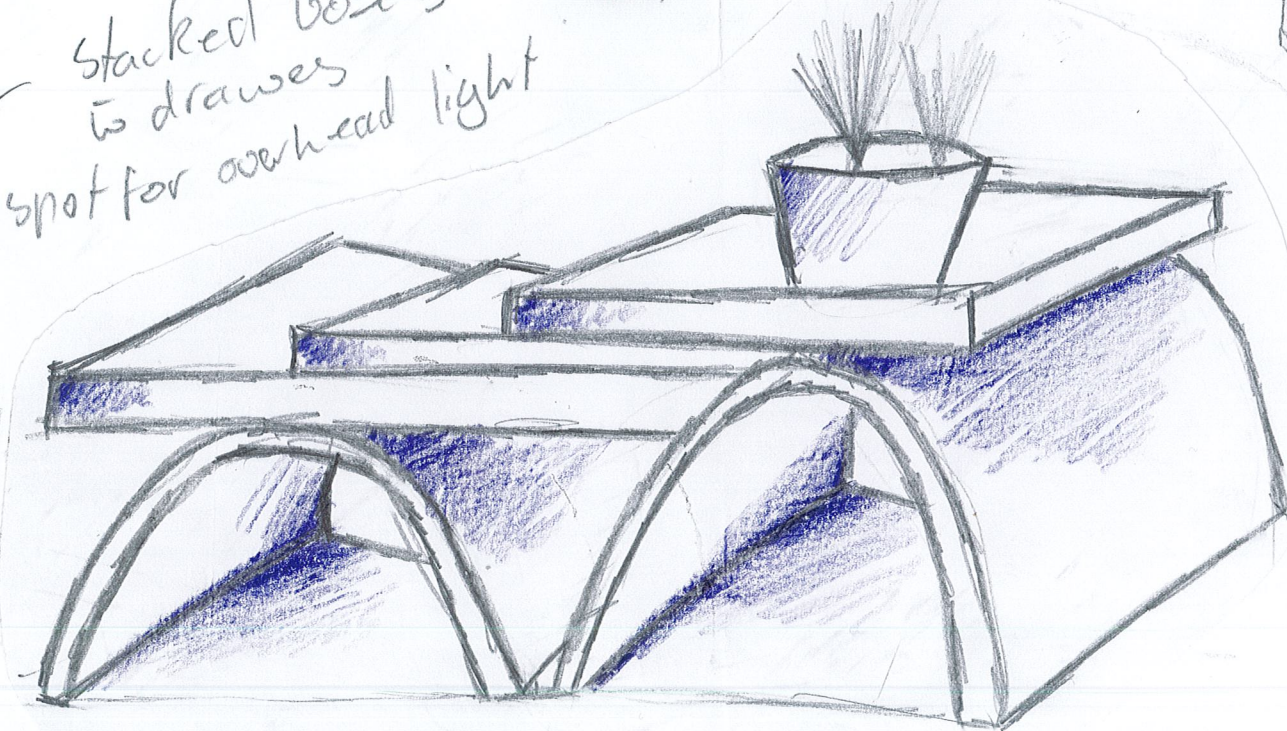
Planned Use and Storage

The user is looking to replace the school provided bedside table with a more functional one, specifically one with a designated space for his subwoofer, which he can take home when he finishes school.


This is the clients room in the boarding house, with the bedside table being designed going where the old one is, with the aim being to have a more tailored and practical design, whilst also improving upon the design and style of the existing product

The shape of the room is square, being 3200mm x 3200mm, which is reflected in other areas of the room such as the drawers under the desk, the rectangular desk, square cubby holes above the desk, and rectangular bed and cupboards.

The existing product is a suitable size for the user, and works well in the space available, providing enough space and room for more traditional bedside table use, with the new product providing on display storage for the sub as well. The dimensions for the existing bedside table are: 680mm high, 500mm deep, and 500mm wide

The client has also communicated that while the small cupboard in the current bedside table is good to have, it is really just used for storing shoes, and its limited size restricts its use, and it isn't a feature that has to be included in the new products design.
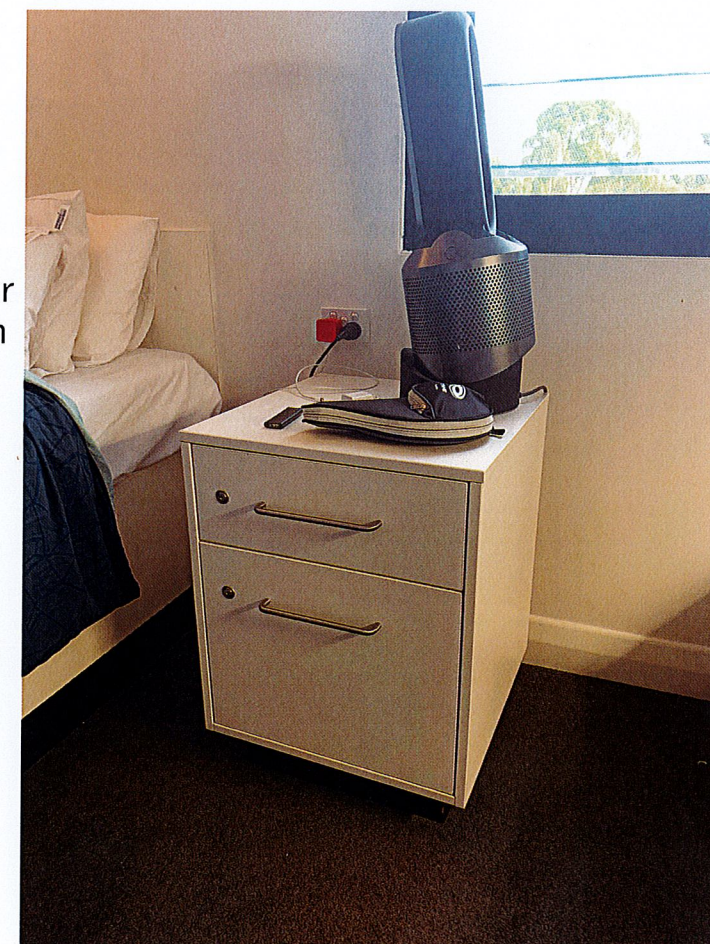
The draws under the desk protrude into the space that could be used by the drawers, with the full width being 1.58 metres, however when the drawers are open they limit the usable width to 1.12 metres

There are also drawers under the bed, which the new table can't block. They mean that the new table cannot be more than 76 cm deep.

The bedside table needs to be roughly the same height as the bed, in order to ensure ease and comfort of use, particularly in a low light setting. The height of the users bed is 70 cm

The existing bedside table the client has includes a lockable drawer at the top of the product, which is also lockable. The client has stated that he would like the new design to feature a drawer, and has also communicated that he wouldn't mind if the drawer was a little bigger than it currently is. The size of the existing draw is also square, being 370mm x 370 mm

Due to the lack of storage and space available, the sub is currently located under the desk in the corner. This impacts leg room, and is also not ideal for sound, as the walls and cupboards reflect the sound, leaving areas of the room bass heavy, and some lacking bass

The sub is finished in a gloss white, with matte black detailing in and around the centre hole, where the dual drivers are located

Another downside of the sub being under the desk is that it isn't visible to most, and it has been designed to look good, which it does

The sub design of the sub is based on a rectangle, with a cut out in the middle for air and sound from the drivers to escape. The dimensions for the sub are 389mm high x 402mm wide x 159mm deep. It weighs 16kg

The base of the sub also has feet in each corner, which lift it off the ground slightly. The feet also have a rubber layer on the base, which stop the bottom of the sub getting scratched, and stop it sliding around during use
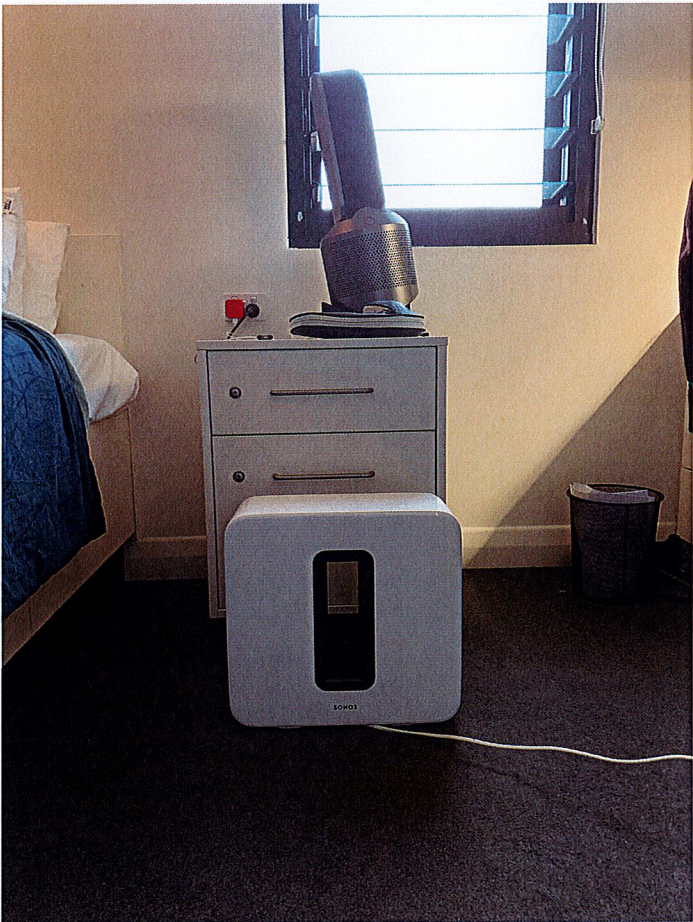
The power requirements of the sub are reasonable flexible, as it can automatically switch between 100-240 volts, and between 50-60 Hz AC

The user's room makes huge use of emerging technologies. There are smart lights above and on the desk, powered by Google Assistant, which is on the Google Home Max next to the lights above the desk.

The design should make use of smart features to fit into the room, and integrate it into the user's existing product ecosystem

The light brands used are LIFX and Philips Hue, so if lighted are incorporated into the table, they should be by those brands, so that everything connects seamlessly

The user also lives with dogs, and has four younger siblings, so the design should be rather sturdy and strong, to withstand any excessive forces applied, ie. hit by a ball etc.

Because of those around the product, it should also be easy to disassemble and fix, should something happen, improving the sustainable design part of the product

Intentionally Blank