

CONCEPT 1

This chair is designed to suit an average adult with a weight of under 120kg, as the dimensions of the chair will suit this best, as shown in the diagram below.

This is a deck chair which uses many straight lines as the architect I researched (Gray Organick) uses straight lines in their designs to create simple yet effective patterns and shapes, which is what I used for inspiration of this chair.

I have used wood for this concept as Gray Organick architects like to use materials from their surrounding environment, and in New Zealand there is many forest surrounding us, so the use of wood fits in with our environment.

To get the pieces of the chair together I would use glue and use glue, which would make the chair strong to sit on and you would not see the connections, so the final look would be professional.

This chair is made of straight wood. If you were to look straight down or up at the chair, you would only see a grey stained wood, which if you look on an angle you can see the bright orange in the middle of the chair.

CONCEPT 2

This full chair and foot stool (or second seat) has been required by the shape of a light used in the tennis house design created by Gray Organick architects. The curved back of the seat represents those lights which stand out from the house as they are the only curved feature in the design, as in this chair design, so the back of the chair, which has an interesting shape, becomes very prominent to the rest of the chair design.

This chair design is made from steel as steel is strong and durable. The legs of the chair have a plain steel, while the seat and footstool have a yellow painted coat over the top of the steel with a pattern painted to black over that.

The pattern painted on the top of the chair is made of straight lines as straight lines are what Gray Organick architects like to use to create shape and structure in their designs, which is what I have incorporated here to add more interest to the chair by adding simple line patterns.

For this chair to stand up it has to be screwed into the ground otherwise the weight of the chair and person would cause the chair to tip. While the legs of the chair are also screwed into the ground so they are secure and will hold the weight of a person.

The main chair, with the curved back, could be used as a bar stool or as a feature chair in a modern lounge. The foot stool could be used as a small dining chair or in conjunction with the main chair.

CONCEPT 2

This is a chair which is made of many 'sticks' of painted wood. The point is a laser rotator, so it will stand out from the things around it.

Each piece of wood for this chair is connected to the main part to it by something so it is strong and secure. Glue is used to keep the pieces at a 90 degree angle to each other.

This design is made out of straight wood because the architect I researched (Gray Organick architects) use straight lines in most of their designs to distinguish their designs from others. They need to create simple yet effective patterns which is what I have done here to create the cross pattern.

This chair is meant to be used in either a lounge, where it will stand out from curved shapes and soft looking couches. Or used in a dining room where it could be used for the head of the table creating an interesting look for that specific spot.

I have used wood for this design as it is using natural environmental resources, which is one of the types of materials that Gray Organick architects like to use in their designs.

CONCEPT 4

This is a swing which has been inspired by the natural environment, which is what the architect I researched (Gray Organick architects) are inspired by the shape of these designs. The dip curve represents a mountain, then the dip shows a valley and the flat part shows a hill and the flattened end represents the coast.

I have attached this swing to a tree as the architect I researched like to incorporate the natural environment into their designs, so by putting my swing on a tree I am using the natural environment, which is incorporated into my design.

The swing is connected to the tree by two pieces of rope. Each piece of rope is tied in a loop around a branch of the tree while the other end of the rope has you through a hole in the swing and tied to the swing seat.

The shell of the swing is made from a thick plastic as it is easy to mold, while the shell are small round pebbles for them on the picture above. The pebbles are placed to the bottom of the chair so it doesn't flip with a person's weight on it. The pebbles are made coating a round like that of a roller rolling down a river, which is a natural sound, something that Gray Organick architects would do.

DEVELOPMENT 5

I have developed my last idea to be by making the wood planks, closely spaced and turned them into rods so that the swing is more comfortable and looks more modern. It has a curved shape, so it fits with the dip curve between the rods. The swing is light and easy to use, while adding a pattern from using straight lines which is what Gray Organick architects (the architect I researched) use when designing their buildings. By using wood for the rods I am using natural environmental resources, which is one of the types of materials that Gray Organick architects like to use in their designs.

I used metal around the rope to make it look like the rope was held together by rope, even though they aren't.

The use of the wooden rods comes from the use of wood in their designs. The rods are connected to the metal rod by using simple, round, evenly spaced, around the metal. This held the wood in other side and kept the whole structure sturdy.

FINAL DEVELOPMENT

I will use wooden rods to make the swing have a better look, which goes with the dip curve, while also using me to remove the metal side structure and give it a better look, under the seat where you cannot see it. The use of natural environmental resources is what Gray Organick architects like to use in their designs, which is what I have done here to create a more natural look.

The shape of the swing which represents a mountain, valley and a hill so it incorporates the shape of the natural environment into the design, which is what Gray Organick architects like to use in their designs. The dip curve represents a mountain, then the dip shows a valley and the flat part shows a hill and the flattened end represents the coast.

The wooden rods are connected together by using simple, round, evenly spaced, around the metal. This held the wood in other side and kept the whole structure sturdy.

The metal rod is connected to the tree by using simple, round, evenly spaced, around the metal. This held the wood in other side and kept the whole structure sturdy.

CONCEPT 5

This is a stool. It is made of wood (for the base and seat), Brown leather (for the sides) and metal springs (in between the two pieces of wood). I have used wood and leather as they are natural environment materials which is what the architect I studied (Gray Organick architects) like to use a lot of in their designs.

The springs are strong (steel), so when you sit on them they only move slightly, so you get the sensation you are bouncing, though you are unlikely to actually fall off the stool.

This stool has been inspired by the packing shed Gray Organick architects designed as blocks of wood are stacked into squares, which reminds me of this chair.

The springs are connected to the wood with nails which do not go all the way through, while the leather is connected to itself (along the sides) by stitches and connected to the wood with staples.

There are four springs in this stool, so it is stable and will not fall over if one spring breaks.

DEVELOPMENT 3

The rope for the swing is attached in four places so the swing is sturdy and does not tip. All the ropes connect together above your head so they do not get in your way, while the front two ropes are at a good place so you can hold onto them if necessary.

The drawing on the right shows how the metal would look before it was curved and folded, it shows that just a long sheet of metal can be folded in a different way to create an interesting shaped chair/swing.

This swing has been developed from the last one, by taking the rope out, and the rope move like the cage and simple. The seat into only one major curve with an extra piece (the dip in the seat). The seat is still inspired by Gray Organick architects as it is high on a hill and the foot is with a stream running through the middle, which is the natural environment that they like to be inspired for, for their designs.

The dip in the stool can either be used for your feet or for things like books or dummies which are wanted or used when on the swing.

+ I have developed the last swing into this swing, by using the triangle shapes create a cage for the seat, while I have changed the seat back to a curved shape as it looks more like mountains, valleys and hills when they are more natural shaped. This means that I am using the inspiration of Gray Organschi architects in two ways, the straight lines they like to use and the inspiration from the natural environment to create their designs.

+ There is a chain on this swing connecting it to tree, it is made of metal so it goes with the cage of the swing. The chain loops over the tree branch and back on itself, where a strong carabena can hold the chain together.

+ These two pictures of the swing show the different sizes there could be, a single size and a double size. The frame can be made from steel so it is sturdy and durable while the seat can be plastic so it is light and waterproof.

+ Fabric padding can be put on the swing to make it more comfortable. It can be tied down to the frame with ribbon and can be taken inside so it doesn't get wet.

DEVELOPMENT 2

+ The rope for the swing is attached in four places so the swing is sturdy and does not tip. All the ropes connect together above your head so they do not get in your way, while the front two ropes are at a good place so you can hold onto them if necessary.

+ This swing has been developed from the last one, by taking the cage out, make the rope move like the cage and simplify the seat into only one major curve with an extra piece (the dip in the seat). The seat is still inspired by Gray Organschi architects as it is how a hill and the coast with a stream running through the middle. Which is the natural environment that they like to be inspired for, for their designs.

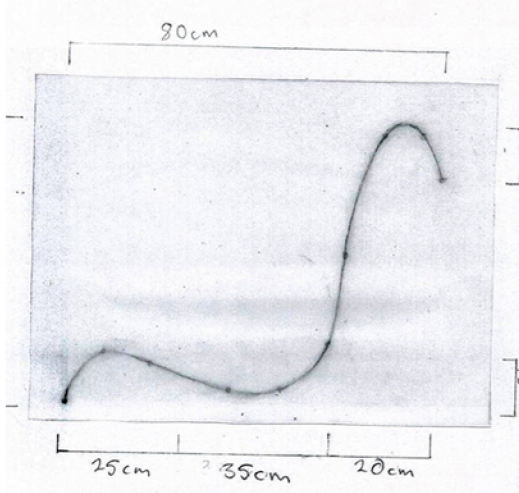
+ The dip in the swing can either be used for your feet or for things like books or drinks which are wanted or used when on the swing.

+ The drawing on the right is how the metal would look before it was curved and folded, it shows that just a long sheet of metal can be folded in a different way to create an interesting shaped chair/swing.



+ This is an ergonomics of my swing. It shows how a person will sit on it. It also shows the approximate height as the yellow ruler shows 1 metre. So it is around 0.5 metres off the ground, which means you are able to swing easily without hitting your feet on the ground.

+ The picture below shows the dimensions of the swing its width is 60cm and its length is 80cm and its height is 60cm.



+ The pictures below show a diagonal view and a front view of the swing seat shape. The diagonal view shows how your legs sit on the swing, while the front view shows how wide the seat could be, as it needs to fit an average size adult and two pieces of rope not right on the edge of the swing.



6

These are the three mockups I have made, they are all swings, as I like this idea of using the surrounding natural environment. They also all use wood, which ties the swing in with the tree.

They all have different ways of hanging them from the tree, so I don't know which one is the best, from these mock-ups, I like the shape of the mock-up above the best.

MOCKUP PHOTOS

wooden swing back-up, overlaid to create a crossing pattern of the sticks. This could be used as the base of a seat or as the side of a swing or chair. This would be used straight lines which Gray Organschi architects like to use in their designs.

The tracing is from the simple 'one plank swing', which is easy to make. I like the idea of using every part of the tree, even the logs to create this, then the stool which does not use many materials so it is sustainable and economic.

7

This is a tracing of all the mock-ups together and turned 90 degrees, with the shape of the chair the tree shape which holds up all the back-ups. The chair only has four support points to your body. This gives an interesting look and feel to the chair and makes it economic.

This tracing is from a birds eye view of the 'one plank swing'. If it is a side view of a chair, that you can turn to make different places to sit. Depending on how you place the seat, depends on how many people you can sit on it.

The tracing is at the back of the curved swing. The side 2 holding the base, which has wood of different weights coming off it to balance out the weight of a person when they sit on it. The back and the base of this swing are not connected.

MOCK-UP DEVELOPMENT