TESAC CONFERENCE - CHRISTCHURCH 2024:

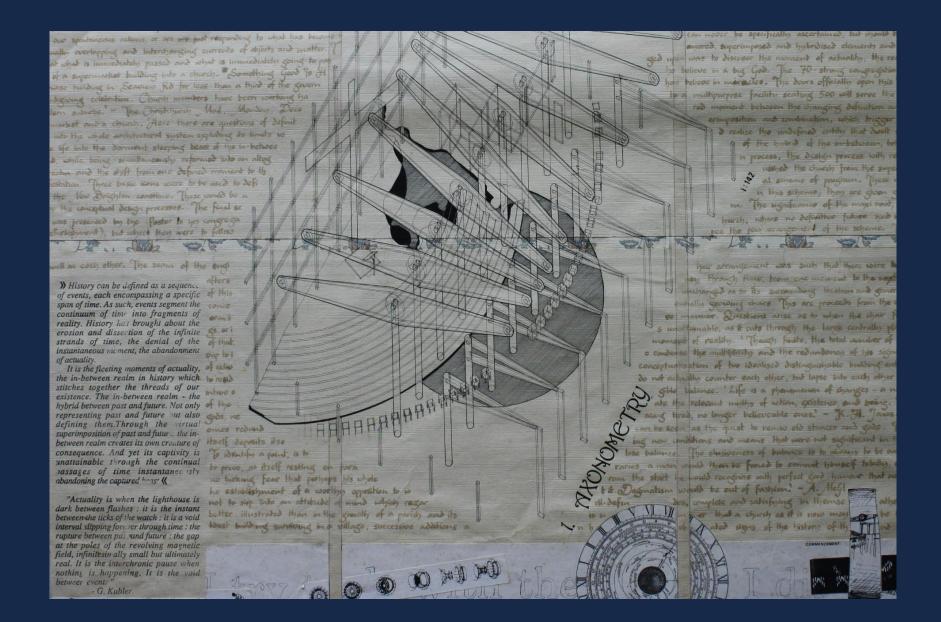
L1DVC LEARNING IN 2024 PART ONE: CONCEPTS BEHIND AN APPROACH TO ACTIVATE LEARNING

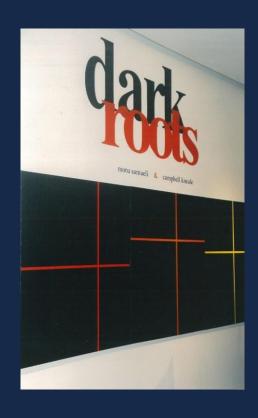
Motu Samaeli 16 April 2024

PART ONE: CONCEPTS

1. MY CON	NTEXT – personal background	≈5min
2. MY PED	AGOGY – my values and philosophies in teaching	≈10min
3. LEARNIN	IG FROM THE MINIPILOT AND PILOT	≈10min
4. TAKAPU	NA GRAMMAR CONTEXT – summary of DVC and MPC courses	≈10min
5. SPATIAL	DESIGN 2024 – programme and projects	≈20min
6. SELF ASS	SESSMENT – trialling a new approach (first iteration)	≈15min
7. STANDA	RDS & STUDENT OUTCOMES	≈30min
8. REFLECT	IONS	≈10min

L1DVC LEARNING IN 2024 MY OWN CONTEXT

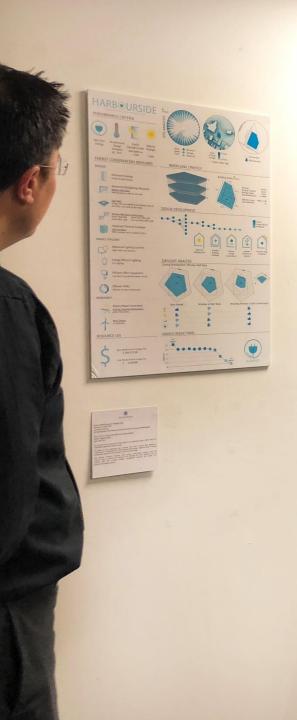








best of a beginning



MY CURRENT ROLES (and the creative things I do):

HEAD OF FACULTY – TECHNOLOGY: Takapuna Grammar School

DVC TEACHER (Years 10 – 13): Takapuna Grammar School

DVC CURRICULUM TUTOR: Auckland University of Technology

DVC CURRICULUM ADVISOR: NZGTTA

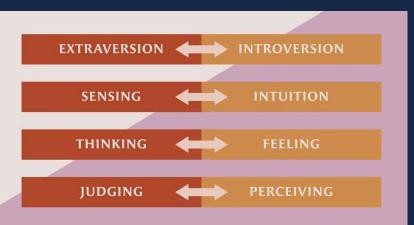
DVC SUBJECT EXPERT GROUP (SEG): Ministry of Education

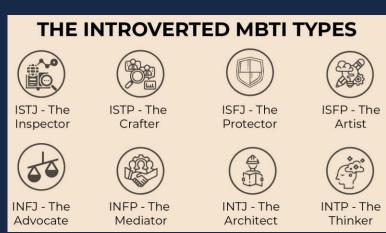
MUSIC MAKER (sound is my medium): for myself

PARENT to my 16-year-old daughter

L1DVC LEARNING IN 2024 MYPEDAGOGY







For understanding people, Myers Briggs Type Indicator (MBTI) can give a framework to explain how we are all different. Each temperament not sitting as binary opposites to each other, rather sitting along a continuum, which can shift with experience and reflect a changing balance of what is learnt and what is innate.

MYERS BRIGGS

The central tenet of Paulo
Freire's 'naming your
reality' (Freire, 2005) has
informed my teaching
practice and many of the
creative heritage activities
I have developed for my
students.

EDUCATION ... IS THE PRACTICE OF FREEDOM, THE MEANS BY WHICH MEN AND WOMEN DEAL CRITICALLY AND CREATIVELY WITH REALITY AND DISCOVER HOW TO PARTICIPATE IN THE TRANSFORMATION OF THEIR WORLD.

PAULO FREIRE





9 T D T2 0 2 4

you all have
your own stories to tell,
your own perceptions,
your own ways of
seeing the world, your
own set of unique
experiences, your own
values and beliefs,
and this forms
your own voice.

own designer voice

ASPIRE

divergent and convergent thinking

product and spatial design heritage, philosophies, knowledges

visual literacy skills

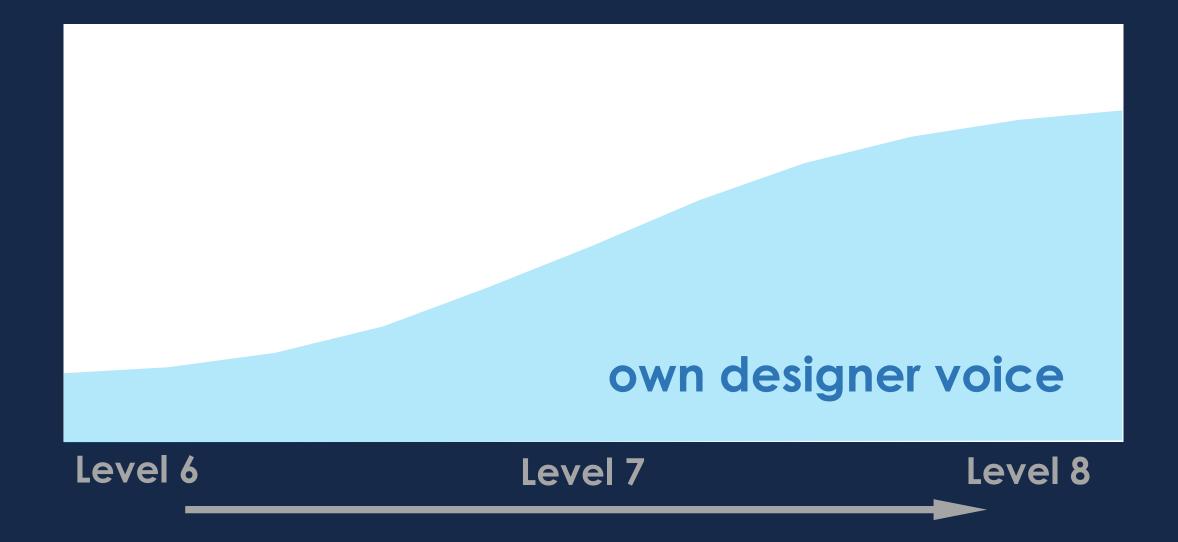
PRACTICE & KNOWLEDGE

improving people's lives

PURPOSE

DESIGN AND VISUAL COMMUNICATION SUBJECT BIG IDEAS – A SUMMARY





DVC BIG IDEAS – a progression scenario

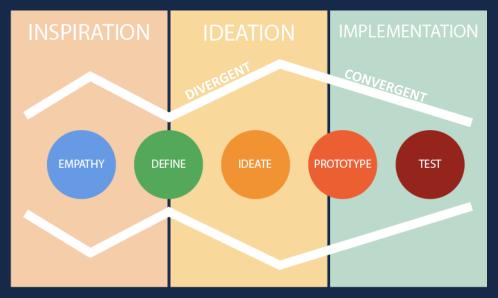
visual literacy skills product & spatial design heritage, philosophies, knowledges own designer voice divergent & convergent thinking improving people's lives

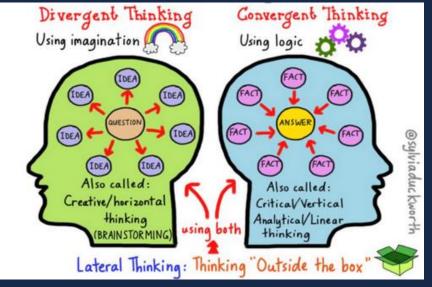
Level 6 Level 7 Level 8

DESIGN AND VISUAL COMMUNICATION
BIG IDEAS – A PROGRESSION SCENARIO

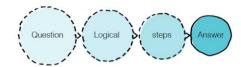


thinking Divergent and convergent thinking are two utilised in sides of thinking designing. These constantly fluctuate throughout a design process that might begin with divergent thinking and end with convergent thinking





DESIGN THINKING



Convergent thinking

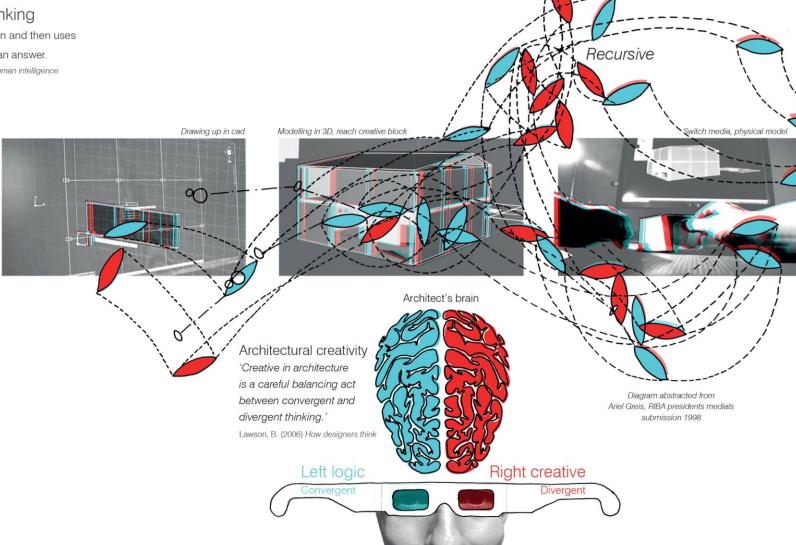
designer takes an initial question and then uses

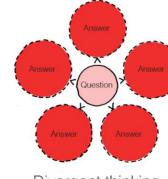
logical steps to come to an answer.

Guilford, J. P. (1967). The nature of human intelligence

Design process diagram

Start, Initial sketch of house

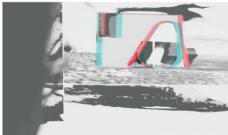




Divergent thinking

Designer starts with a question and then uses multiple approaches to explore multiple answers Guilford, J. P. (1967). The nature of human intelligence

Insertion of physical model into digital, concept compete, FIN



thinking as being "inherent within human cognition; it is a key part of what makes us human".

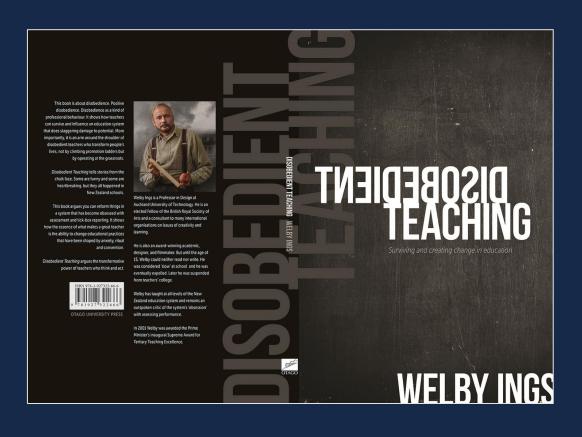
Designers do not approach each design problem anew, rather they bring their own motivations, beliefs, values and attitudes (Lawson, 2005; Lawson, 2007) that is likely to grow and change as a designer develops.

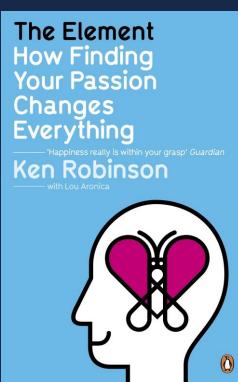


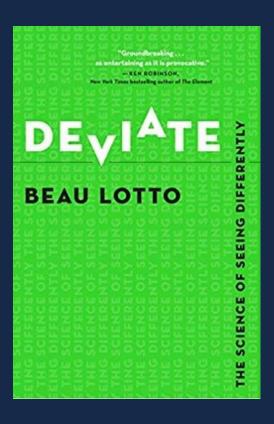
In the current New Zealand Technology Curriculum, design thinking is seen as supporting "students to be innovative, reflective and critical in designing" (Ministry of Education, 2017, p. 1).

The process of design thinking can be iterative, introspective and deeply personal (de Vries, 2012).

'planting seeds'









L1DVC LEARNING IN 2024 LEARNING FROM THE (MINI)PILOT

THE FOUR ACHIEVE-MENT STANDARDS (2022-24)

ONE STANDARD is about influences on design ideas (DVC 1.1)

ONE STANDARD is about representation techniques (DVC 1.2)

ONE STANDARD on developing design ideas (DVC 1.3)

ONE STANDARD on instrumental drawings (DVC 1.4)

ALL are worth the same number of credits (5 credits)

OVERALL REFLECTIONS: (from the 2022 mini-pilot & 2023 pilot)

SOME NOTABLE CHANGES (based on doing all four standards):

- by starting with generating ideas, students get to engage with creative thinking immediately and to learn about different perspectives (as well as their own)
- all modes of visual communication for designing available for students (not just prioritising freehand sketching)
- the purpose of developing ideas for people to the fore (as opposed to just working through stages of a design process)
- instrumental drawings require students to understand the technical details
 of their design outcomes (not just applying the methods and conventions of
 different drawing systems)
- focus on representation techniques in themselves (rather than composition principles and layout)
- students learn to curate their own work

Our preferred programme for 2024 at our school* would be to offer two of the four DVC standards (AS92000 – DVC 1.1 Int. and AS92002 – DVC 1.3 Ext.)



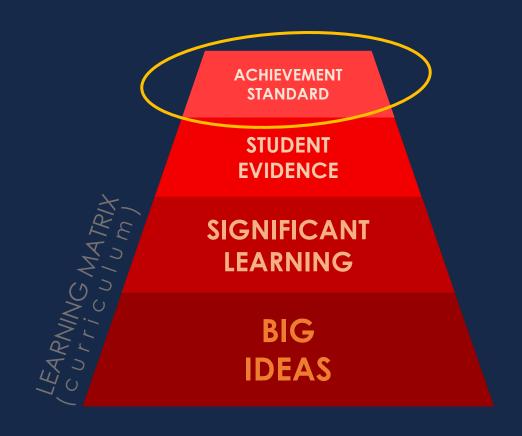
L1DVC LEARNING IN 2024 TAKAPUNA GRAMMAR CONTEXT

At Takapuna Grammar it was decided by SLT to reduce the number of credits for every new Level One courses in 2024 – subjects would offer two or three standards, with two standards (an Internal and an External) being the preference.

This was a conscious shift of emphasis from assessment towards **learning**.

(Knowing that for almost every one of our students the minimum aim is to pass Level Two.)

In the Technology Faculty, the three DVC/MPT courses all chose to offer **two**Achievement Standards for 2024 ...



The three Level One DVC/MPT courses offered at Takapuna Grammar:

PRODUCT DESIGN

92001 (DVC 1.2)

Use representation techniques to visually communicate own product or spatial design outcome

92015 (MPT 1.4)

Demonstrate understanding of techniques selected for a feasible Materials and Processing Technology outcome

> THREE CLASSES: 78 students - 33 students (42%) not done the subject in Year 10

SPATIAL DESIGN

92000 (DVC 1.1)

Generate product or spatial design ideas using visual communication techniques in response to design influences

92002 (DVC 1.3)

Develop product or spatial design ideas informed by the consideration of people

TWO CLASSES: 50 students

- 33 students (66%) not done the subject in Year 10

TEXTILES DESIGN

92013 (MPT 1.2)

Experiment with different materials to develop a Materials and Processing Technology outcome

92015 (MPT 1.4)

Demonstrate understanding of techniques selected for a feasible Materials and Processing Technology outcome

TWO CLASSES: 46 students

– 23 students (50%) not done the subject in Year 10

The projects for each of the three Level One DVC/MPT courses offered:

PRODUCT DESIGN

UNIT ONE

Develop a concept through model making from a choice of three projects: a chair; a light; a mechanical device that can make a noise or carry out an action

UNIT TWO

Taking their learning and exploring from the detailed model outcome, develop a full-size functioning product. The outcome will be the focus of a school exhibition to round out the unit

SPATIAL DESIGN

P1: RACK for Audio

Explore ideas for an audio rack in response to a range of influences

P2: STRUCTURE for Shade

Explore ideas for a shade structure in response to te ao Māori and another design influence

P3: BOX for Letters

Design a letterbox considering its aesthetic and functional <u>details</u>

P4: SEAT for Outdoors

Design a seat suitable for an outside entertainment area suited for the use and activities in that location

TEXTILES DESIGN

"Habitats"

1: Drop Dead Thread

Machine knowledge and basic skills

2: Garment Bag

Basic procedures using textiles materials

3: Community Project

Fairy abodes – accommodation for the fae

4: Couture

TBC - not assessed

5: Revision & Writing

Explain and evaluate understanding of selected techniques for an authentic and feasible outcome

LEVEL ONE SPATIAL DESIGN TAKAPUNA GRAMMAR SCHOOL 2024

The Takapuna Grammar SPATIAL DESIGN programme is committed to fostering a positive and productive learning ecology.

The Department is keen in facilitating a

culture of independent, proactive and resilient learning

in the context of design, creativity and architecture

through the Design and Visual Communication Curriculum and its Big Ideas.

Technology Learning Area Whakatauki

Design, as an act of manaakitanga, seeks new ways to improve the lives of people and their places

Design tikanga weaves together both divergent and convergent thinking in the generation, exploration, refinement, and resolving of design ideas and outcomes

Designers bring their own unique voice that draws from their personal experiences, cultures, values, perspectives as well as those of other people

Design has a
whakapapa –
heritage,
philosophies,
knowledges,
both functional
and aesthetic, in
relation to
product and
spatial design

Visual
communication is
a set of visual
literacy skills that
allow designers to
think about,
evaluate and
appropriately
present product
and spatial
design ideas and
outcomes

Sood
architecture is
like a piece of
beautifully
composed music
crystallised in
space that
elevates our
spirits beyond the
limitation of
time.'
- Cao Ho

level 1 2024



Level Six DVC Significant Learning

the L1TSD programme: (learning to design)

Students undertake a four-part full-year programme that covers learning how to apply divergent thinking, convergent thinking, and the visual communicating of design thinking and ideas.

part one: RACK for AUDIO [TERM ONE]

You are **generating a range of creative ideas** for storing a audio system and vinyl records. You will use a range of visual communication modes and media and a range of ideation strategies.

part two: STRUCTURE for SHADE [TERM ONE - TERM TWO]

You are **generating and exploring ideas** for a shade structure outside Te Poho at Takapuna Grammar School. Your ideas will be **in response to te ao Māori and another design influence**.

part three: BOX for LETTERS [TERM TWO]

You are **designing a letter box for storing mail** (letters, newspapers and small packages). Your ideas will be inspired by concepts in architecture.

part four: SEAT for OUTDOORS [TERM THREE - TERM FOUR]

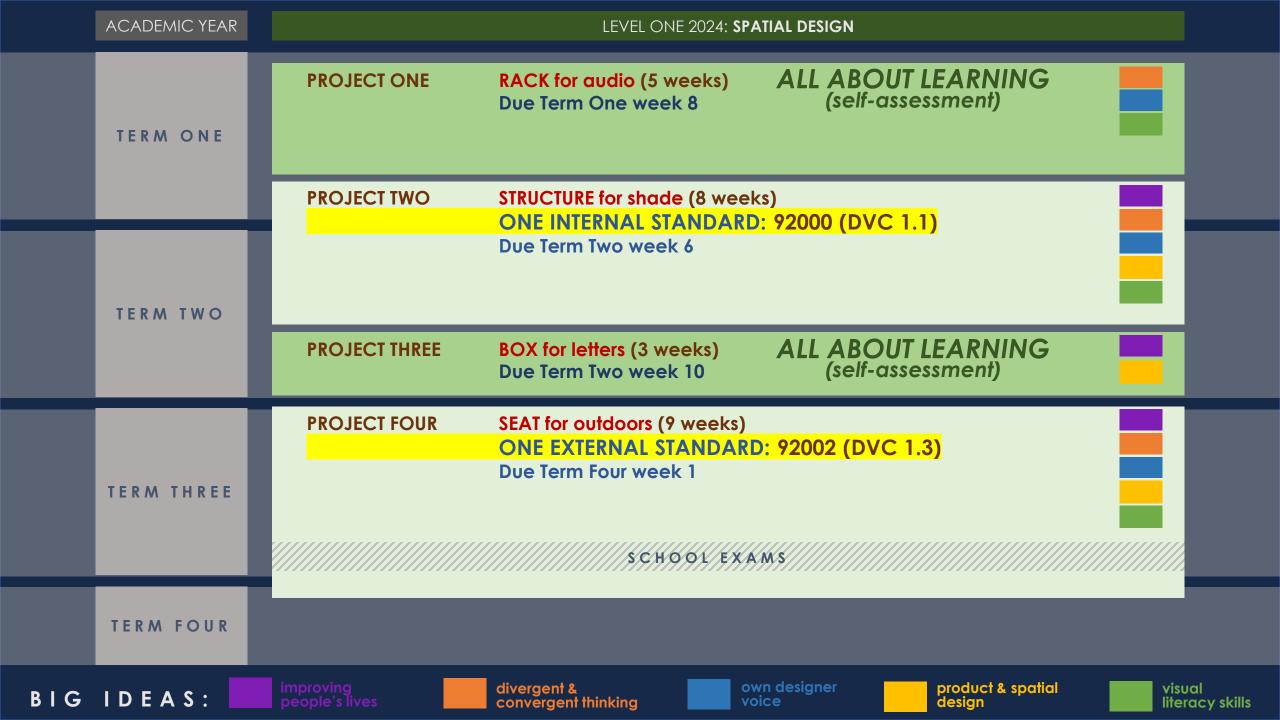
You are **designing outdoor seating** suitable for **your identified outdoor area** (e.g. café, barbeque area, deck, beach, park, etc.) The seat is to suit the specific requirements of a specified setting and be suitable for **general outdoor use for that location**.

You are to also communicate the construction and assembly details of your outdoor chair design outcome using 2D and 3D instrumental drawings.



globe garden chair - peter opsvik





visual literacy skills

divergent & convergent thinking

product & spatial design heritage, philosophies, knowledges

own designer voice

improving people's lives

Level 6

Level 7

Level 8

level 1 2024

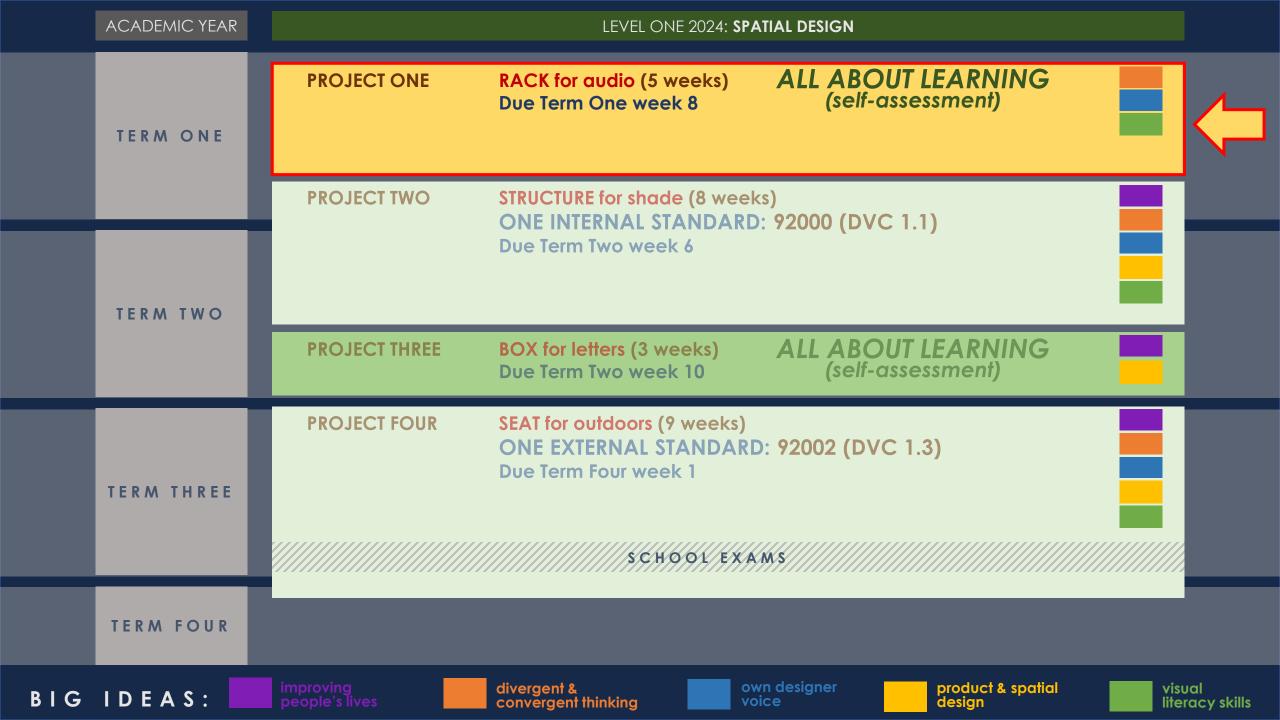
DESIGN AND VISUAL COMMUNICATION BIG IDEAS – A PROGRESSION SCENARIO



LEVEL ONE SPATIAL DESIGN STARTING WITH SELF-ASSESSMENT

"The drawing were a good starting point to give me a picture of what I imagined my audio rack to look like. The glass had an unusual shap to it and looked like it was thrown on. The midde parts didn't connect and the colour wasn't how I invishined."

Starting point 1, I was able to make a range of different ideas from all aspects of the Ellen gray side table, including ideas from close-up details. Starting Point 2 was also successfull at generating creative ideas and creating interesting shapes that are innovative. In starting point 3 i did have some creative shapes but rather I believe I was less successful at the last one most likey due to not looking at a good enough varity of insperation pictures.



project://one/RACK (for audio)

activity summary:

Generate and explore a range of ideas for an audio rack unit for storing vinyl records and a HIFI set up. Your ideas will be in response to a range of design influences.

considerations:

You will generate and explore a range of ideas for an audio rack unit, that will accommodate at least 100 records, and a turn table system, inspired by:

- 1. An iconic piece of furniture
- 2. An iconic piece of audio equipment
- The work of an influential product designer



is making
something
intelligible and
memorable.
Great design is
making
something
memorable and
meaningful'
- Dieter

level 1 2024



project requirements:

In working through this assignment you will need to consider and carry out the following:

Starting Point ONE: An iconic piece of furniture (week 3)

Starting Point TWO: An iconic piece of audio equipment (week 4)

Starting Point THREE: A design from an influential product designer (week 5)

For EACH of the Starting Points (above):

- Engage with ONE selected design gathering a range of images (different views, drawings, close up details, etc.) and very brief written information
 [1 SLIDE]
- Generate at least <u>FIVE</u> starting ideas. Experiment with ideas (3D forms, 2D shapes/patterns, materials, etc.) influenced by your furniture
 [1-2 SLIDES]

What are the characteristics of these images that capture your attention?

• Use at least <u>TWO</u> visual communication modes (hand drawing, paper modelling, digital modelling) to help **explore quick ideas**.





ENGAGE: (1 slide)

GENERATE: (1-2 slides)

Starting Point ONE:

An iconic piece of furniture

(week 3)



starting ideas

Starting Point TWO:

An iconic piece of audio equipment (week 4)

images + text

starting ideas



Starting Point THREE:

A design from an influential product designer

(week 5)

images + text starting ideas



REFLECTION: we will only do two starting points (iconic furniture & influential product designer) next year and focus more time on extending ideas













Start Point ONE:

iconic furniture

blue and red chair

noguchi coffee table

eileen gray side table

> alto tea cart

tizio desk lamp

barcelona day bed











Start Point THREE: influential designers

charles and ray eames

grete jalk

dieter rams

ross Iovegrove

> k a r i m r a s h i d

ron arad







project requirements: (continued)

In working through this assignment you will need to consider and carry out the following:

Extending your ideas further (week 6)

Extend some of your preferred ideas further by experimenting with them to find out how they could be used as an audio rack for vinyl records and a turntable system.

[2-3 SLIDES]

You might extend the ideas separately or you may combine them together.

Present your design outcome (week 7)

Use visual communication techniques to visually explain your concluding idea showing its details and overall design from different viewpoints.

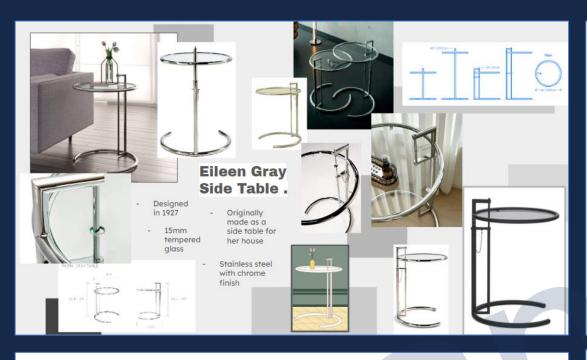
Communicate the form, materials, colour, size, and details of your design.

[1-2 SLIDES]

Think about the functions of storage while retaining aspects of your starting points.



Level One Spatial Design 2024 - Project O		audio				
Assessment Rubric (for self assessmen	t)					
NAME:	DATE:					
Activity	Grade (select 1)	Activity	Grade (select 1)	Activity	Grade (select 1)	OVERALL (select 1)
Starting Point 1: iconic furniture		Starting Point 2: iconic audio gear		Starting Point 3: work of a famous designer		(ave. best two SP results)
For E; you have used a range of methods of experimentation to create creative starting ideas that are innovative or original responses to the design influence		For E; you have used a range of methods of experimentation to create creative starting ideas that are innovative or original responses to the design influence		For E; you have used a range of methods of experimentation to create creative starting ideas that are innovative or original responses to the design influence		E
For M; you have used experimentation to create some creative starting ideas that respond to the design influence	M	For M; you have used experimentation to create some creative starting ideas that respond to the design influence	M	For M; you have used experimentation to create some creative starting ideas that respond to the design influence	M	M
For A; you have generated different starting ideas that relate to the design influence	Α	For A; you have generated different starting ideas that relate to the design influence	Α	For A; you have generated different starting ideas that relate to the design influence	A	Α
For N; you have generated similar starting ideas that do not relate to the design influence	N	For N; you have generated similar starting ideas that do not relate to the design influence	N	For N; you have generated similar starting ideas that do not relate to the design influence	N	N
Reasons for judgements:						
						OVERALL (select 1)
Extending your design ideas*	* design ideas are a	udio racks for a turntable, records, etc.				(carry across your result)
For E; you have extended new design ideas, incorporating function and aesthetics, through divergent thinking and reflection/decision making that creatively responds on the design influences	E					E
For M; you have extended design ideas, incorporating function and aesthetic considerations , through reflection/decision making that responds on the design influences	M					M
For A; you have added more design ideas with some reflection/decision making that relates on the design influences	Α					A
For N; you have not added any more design ideas or if so, they do not relate to the design influences	N					N
Reasons for judgements:						_
						OVERALL (select 1)
Finalising your design ideas*	* design ideas are a	udio racks for a turntable, records, etc.				(carry across your result)
For E; you have clearly shown a final design in terms of its features and key details that relate to the design influences	E					E
For M; you have shown a final design from more that one viewpoint to show its overall design in terms of its features (form, function, materials, colour and sizes)	M					M
For A; you have shown a final design from more than one viewpoint	Α					Α
For N; you have not shown a final design with any suitable drawings	N					N
Reasons for judgements:						



Bang & Olufsen beogram 4000c

 Priced at around \$11,000 USD

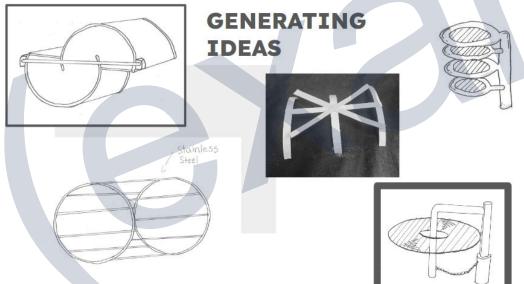
- Was released around 1972

 Designed by Jacob Jensen









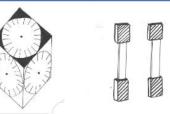




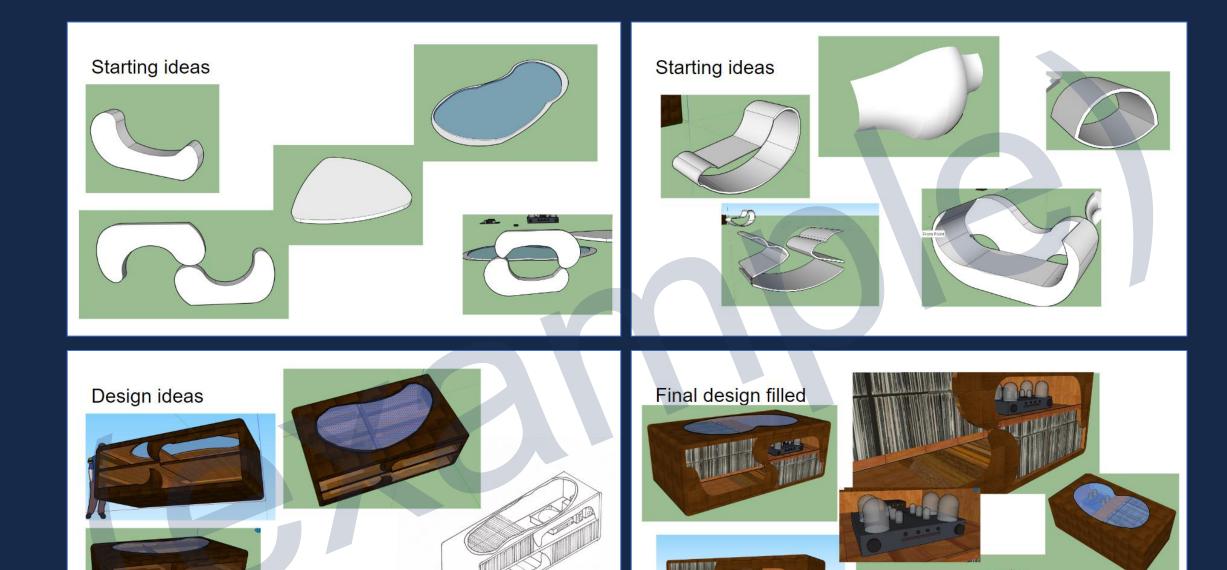
GENERATING IDEAS











Assessment Rubric (for self assessmen	t)					
NAME:	DATE:					
Activity	Grade (select 1)	Activity	Grade (select 1)	Activity	Grade (select 1)	OVERALL (select
Starting Point 1: iconic furniture		Starting Point 2: iconic audio gear		Starting Point 3: work of a famous designer		(ave. best two SP results,
For E; you have used a range of methods of experimentation to create creative starting ideas that are innovative or original responses to the design influence	Е	For E; you have used a range of methods of experimentation to create creative starting ideas that are innovative or original responses to the design influence	E	For E; you have used a range of methods of experimentation to create creative starting ideas that are innovative or original responses to the design influence	E	E
For M; you have used experimentation to create some creative starting ideas that respond to the design influence	М	For M; you have used experimentation to create some creative starting ideas that respond to the design influence	М	For M; you have used experimentation to create some creative starting ideas that respond to the design influence	M	M
For A; you have generated different starting ideas that relate to the design influence	Α	For A; you have generated different starting ideas that relate to the design influence	Α	For A; you have generated different starting ideas that relate to the design influence	Α	A
For N; you have generated similar starting ideas that do not relate to the design influence	N	For N; you have generated similar starting ideas that do not relate to the design influence	N	For N; you have generated similar starting ideas that do not relate to the design influence	N	N
at a good enough varity of insperation pictures.	-g onapso triut u	point o rate nate some	J. J	but rather I believe I was less successful at the la		OVERALL (select
Extending your design ideas*	* design ideas are a	udio racks for a turntable, records, etc.				(carry across your result)
For E; you have extended new design ideas, incorporating function and aesthetics, through divergent thinking and reflection/decision making that creatively responds on the design influences	E					E
For M; you have extended design ideas, incorporating function and aesthetic considerations, through reflection/decision making that responds on the design influences	M					М
For A; you have added more design ideas with some reflection/decision making that relates on the design influences	A					A
For N; you have not added any more design ideas or if so, they do not relate to the design influences	N					N
Reasons for judgements: With my extended ide	as it was clearly	shown on how I incorporated my generating idea	s, shading and	function that relates to audio racks and my desigr	n infulences.	
						OVERALL (select 1
Finalising your design ideas*	* design ideas are a	udio racks for a turntable, records, etc.				(carry across your result)
For E; you have clearly shown a final design in terms of its features and key details that relate to the design influences	E					E
For M; you have shown a final design from more that one viewpoint to show its overall design in terms of its features (form, function, materials, colour and sizes)	М					M
For A; you have shown a final design from more than one viewpoint	Α					A
For N; you have not shown a final design with any suitable	N					N

Level One Spatial Design 2024 - Project O		audio				
Assessment Rubric (for self assessment	t)					
NAME: Liam Harvey	DATE: 18/3/24					
Activity	Grade (select 1)	Activity	Grade (select 1)	Activity	Grade (select 1)	OVERALL (select 1
Starting Point 1: iconic furniture		Starting Point 2: iconic audio gear		Starting Point 3: work of a famous designer		(ave. best two SP results)
For E; you have used a range of methods of experimentation to create creative starting ideas that are innovative or original responses to the design influence	Е	For E; you have used a range of methods of experimentation to create creative starting ideas that are innovative or original responses to the design influence	E	For E; you have used a range of methods of experimentation to create creative starting ideas that are innovative or original responses to the design influence		Е
For M; you have used experimentation to create some creative starting ideas that respond to the design influence	М	For M; you have used experimentation to create some creative starting ideas that respond to the design influence	М	For M; you have used experimentation to create some creative starting ideas that respond to the design influence	М	М
For A; you have generated different starting ideas that relate to the design influence	Α	For A; you have generated different starting ideas that relate to the design influence	Α	For A; you have generated different starting ideas that relate to the design influence	Α	Α
For N; you have generated similar starting ideas that do not relate to the design influence	N	For N; you have generated similar starting ideas that do not relate to the design influence	N	For N; you have generated similar starting ideas that do not relate to the design influence	N	N
Reasons for judgements: I gave my self A on the	iconic furniture	piece as I could of had better designs that relate	d more to nogu	chis Coffee.		
						OVERALL (select 1
Extending your design ideas*	* design ideas are a	rdio racks for a turntable, records, etc.			(carry across your result)	
For E; you have extended new design ideas, incorporating function and aesthetics, through divergent thinking and reflection/decision making that creatively responds on the design influences	E				E	
For M; you have extended design ideas, incorporating function and aesthetic considerations, through reflection/decision making that responds on the design influences	M	M For extending my Ideas (Stating desing slide) I think I did quite well. For the three audio racks I did I took inpiration from the previous ideas:			М	
For A; you have added more design ideas with some reflection/decision making that relates on the design influences	Α				A	
For N; you have not added any more design ideas or if so, they do not relate to the design influences	N	N			N	
Reasons for judgements: I felt that my starting d	lesigns encorpe	rated all the things to get this grade				
						OVERALL (select 1)
Finalising your design ideas*	* design ideas are audio racks for a turntable, records, etc.			(carry across your result)		
For E; you have clearly shown a final design in terms of its features and key details that relate to the design influences	Е				E	
For M; you have shown a final design from more that one viewpoint to show its overall design in terms of its features (form, function, materials, colour and sizes)	М	M For my final idea I took inspiration from ARADS designs. I took the aesthetics from his designs to make a great looking and functable audic			М	
For A; you have shown a final design from more than one viewpoint	Α	A			A	
For N; you have not shown a final design with any suitable drawings	N			N		
Reasons for judgements: I think that my final de	sign encorpated	all the standards merit encorparted				

Assessment Rubric (for self assessmen	it)					
NAME: Harsh Patel	DATE: 18/3/24					
Activity	Grade	Activity	Grade (select 1)	Activity	Grade (select 1)	OVERALL (select 1)
Starting Point 1: iconic furniture		Starting Point 2: iconic audio gear		Starting Point 3: work of a famous designer		(ave. best two SP results)
For E; you have used a range of methods of experimentation to create creative starting ideas that are innovative or original responses to the design influence	E	For E; you have used a range of methods of experimentation to create creative starting ideas that are innovative or original responses to the design influence	E	For E; you have used a range of methods of experimentation to create creative starting ideas that are innovative or original responses to the design influence	Е	E
For M; you have used experimentation to create some creative starting ideas that respond to the design influence	М	For M; you have used experimentation to create some creative starting ideas that respond to the design influence	М	For M; you have used experimentation to create some creative starting ideas that respond to the design influence	M	М
For A: you have generated different starting ideas that relate	Α	For A; you have generated different starting ideas that relate	Α	For A; you have generated different starting ideas that relate	Α	A
to the design influence For N; you have generated similar starting ideas that do not	 	to the design influence For N; you have generated similar starting ideas that do not	 	to the design influence For N; you have generated similar starting ideas that do not		
Reasons for judgements: All of the starting ideas have a creative and different theme to each other and relate to the design. They all come together and look well placed together. The designers st						N testing ideas was
the hardest but came up with good starting poir	nts of it. The con	necting starting idea was one of the best because	it showed a co	nnecting between the 2 pieces of the noguchi tabl	e.	tarting lueas was
			N.V.			OVERALL (select 1)
Extending your design ideas*	* design ideas are a	udio racks for a turntable, records, etc.				(carry across your result)
For E; you have extended new design ideas, incorporating function and aesthetics, through divergent thinking and reflection/decision making that creatively responds on the design influences	E		31			E
For M; you have extended design ideas, incorporating function and aesthetic considerations, through reflection/decision making that responds on the design influences	М					м
For A; you have added more design ideas with some reflection/decision making that relates on the design influences	A					Α
For N; you have not added any more design ideas or if so, they do not relate to the design influences	N					N
Reasons for judgements: The drawing were a go	ood starting poin	nt to give me a picture of what I imagined my audi	o rack to look lil	ke. The glass had an unusual shap to it and looke	d like it was thro	wn on. The midde
parts didn't connect and the colour wasn't how	I invishined.					
						OVERALL (select 1)
Finalising your design ideas* For E: you have clearly shown a final design in terms of its		udio racks for a turntable, records, etc.				(carry across your result)
For E; you have clearly shown a final design in terms of its features and key details that relate to the design influences For M; you have shown a final design from more that one	E					Е
viewpoint to show its overall design in terms of its features (form, function, materials, colour and sizes)	M					M
	Α					A
For A; you have shown a final design from more than one viewpoint						
For A; you have shown a final design from more than one viewpoint For N; you have not shown a final design with any suitable	N					N
For A: you have shown a final design from more than one viewpoint For N: you have not shown a final design with any suitable drawings	mproved by the	colour of the audio rack, The front desing had inc ave by the other half of the table.	luded starting id	ea of Arads design, improving the look and keepi	ng the same cor	
End is you have shown a final design from more than one viewpoint. For it you have not shown a final design with any suitable drawings. Reasons for judgements: The aesthetics have in noguchi table. The glass became more symetric viewpoints and table. The glass became more symetric viewpoints are suitable. The glass became more symetric viewpoints are viewpoints. The viewpoints are viewpoints and viewpoints are viewpoints and viewpoints are viewpoints.	mproved by the cal and held in pi	ave by the other half of the table.	luded starting id	ea of Arads design, improving the look and keepi	ng the same cor	
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Level One Spatial Design 2024 - Project One: RACK for audio

LEVEL ONE SPATIAL DESIGN TWO ACHIEVEMENT STANDARDS







assessments:

P1 - RACK for AUDIO

P2 – STRUCTURE for SHADE

P3 – **BOX for LETTERS**

P4 – SEAT for OUTDOORS

Internal

Self-assessment

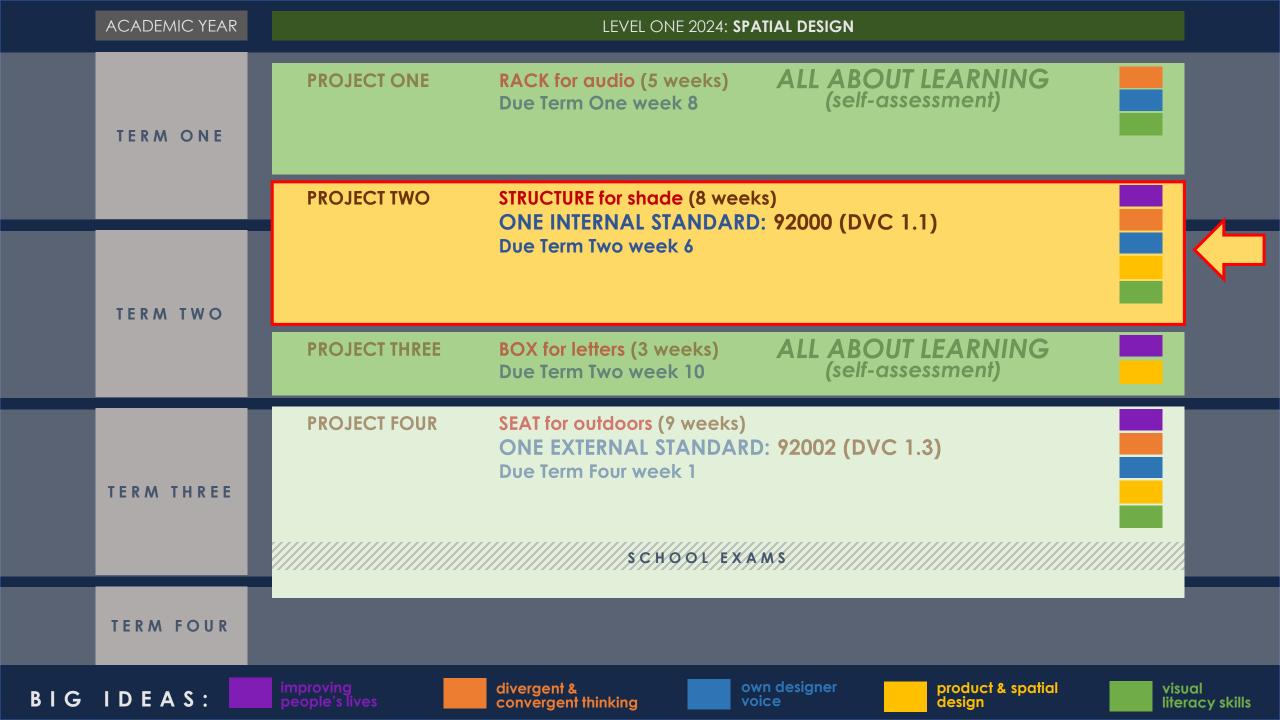
AS92000 - DVC 1.1

Self-assessment

AS92002 - DVC 1.3

External





project://two/STRUCTURE (for shade)

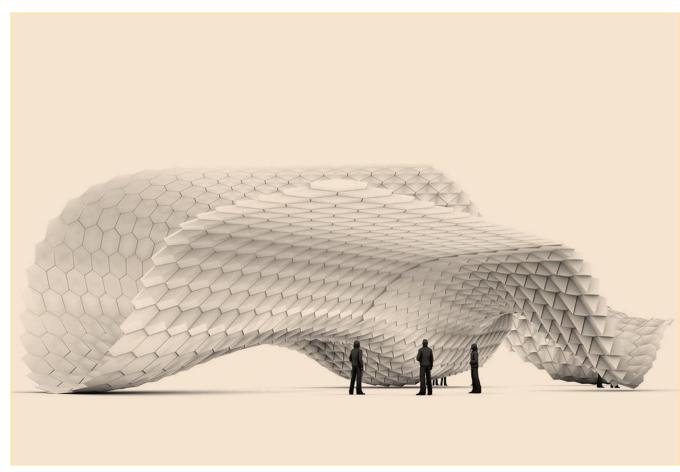
activity summary:

Generate and explore a range of ideas for a shade structure on the grass area outside Te Poho at Takapuna Grammar School. Your ideas will be in response to te ao Māori and another design influence.

what to do:

You will generate and explore a range of ideas for a shade structure on the site adjacent to Te Poho. Use both starting points below to help you to generate, experiment, and extend ideas.

- Starting Point One: The wharenui – nga whare tupuna (house of ancestors)
- Starting Point Two: The work of an architect



Space has always been the spiritual dimension of architecture.
St is not the physical statement of the structure so much as what it contains that moves us.'
- Arthur

spatial design













project requirements:

In completing this assignment you will need to consider and carry out the following:

Starting Point 1: The whakapapa, meaning and elements of the wharenui

1A: ENGAGE with the origins, meaning and elements of the wharenui, through researching and analysing at least TWO existing examples.

Engaging with this understanding allows you to start thinking about how te ao Māori might influence your design ideas.

Identify and show aspects of TWO different wharenui (one traditional and one contemporary). These can be shown as a collection of images (photographs, drawings, details, etc.) with brief notes explaining your thinking and any decisions.

1B: GENERATE a range of starting ideas. Experiment with different 3D forms, materials, colour, patterns, etc.) influenced by the wharenui and images you have collected.

What are the characteristics of these images that capture your attention?

What are the cultural safety aspects to consider in using designs from te ao Māori?

Use any visual techniques (sketching, modelling, digital) that will help you to explore quick ideas.

The wharenui should influence your form generation and give meaning to your ideas.



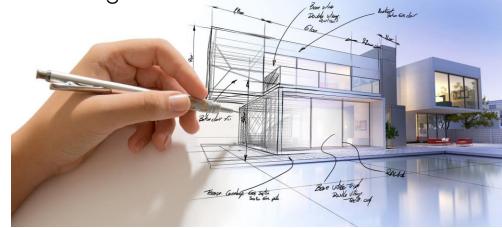
project requirements: (continued)

In completing this assignment you will need to consider and carry out the following:

Starting Point 2: The work of an architect

Choose ONE of the following architects:

Tadao Ando	Andrew Pattison	Mies van der Rohe
Zaha Hadid	John Scott	Santiago Calatrava
Daniel Liberskind	Nicholas Dalton	Nicola & Lance Herbst



2A: ENGAGE with at least THREE examples of works designed by your chosen architect.

Identify and show aspects of their work that you would like to use for idea generation. These can be shown as a collection of images (photographs, drawings, details, etc.)

2B: GENERATE a range of starting ideas. **Experiment** with different 3D forms, materials, colour, patterns, etc.) **influenced by the architect's works and images you have collected.**

What are the characteristics that capture your attention? Are these characteristics aesthetic, functional, spiritual, or metaphorical?

Use any visual techniques (sketching, modelling, digital) that will help you to explore quick ideas.



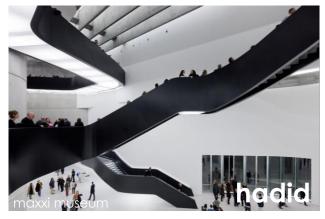








influential contemporary architects















(starting point 1): THE WHARENUI (starting point 2): A SELECTED ARCHITECT **1ST EXAMPLE OF WHARENUL INFORMATION ON A SELECTED** (Traditional) (1 slide) **ARCHITECT** (1 slide) Text and images – name, location, Text and images – name, country, dob, ∞ interiors & exteriors – referenced quotes - referenced T1 week week 2ND EXAMPLE OF WHARENUI **EXAMPLES OF AT LEAST 3 SIGNIFICANT** (Contemporary) (1 slide) WORKS (1-2 slides) Text and images – name, location, Images that are labelled – building name, interiors & exteriors – referenced location, key characteristics – referenced AT LEAST 5 QUICK 3D IDEAS (1 slide) AT LEAST 5 QUICK 3D IDEAS (1 slide) week 6 week Simple abstract forms inspired by the Simple abstract forms inspired by wharenui – images and notes architect's works – images and notes (sketches/models/SketchUp/etc.) (sketches/models/SketchUp/etc.) **1ST BASIC DESIGN IDEA** (1 slide) **1ST BASIC DESIGN IDEA** (1 slide) Potential shade structure inspired by Potential shade structure inspired by the wharenui – images and notes architect's works – images and notes week 10 (sketches/models/SketchUp/etc.) week (sketches/models/SketchUp/etc.) **2ND BASIC DESIGN IDEA** (1 slide) **2ND BASIC DESIGN IDEA** (1 slide) Potential shade structure inspired by Potential shade structure inspired by the wharenui – images and notes architect's works - images and notes (sketches/models/SketchUp/etc.) (sketches/models/SketchUp/etc.)

A FORMAT FOR YOUR SLIDES

A FORMAT FOR YOUR SLIDES

project requirements: (continued)

In completing this assignment you will need to consider and carry out the following:

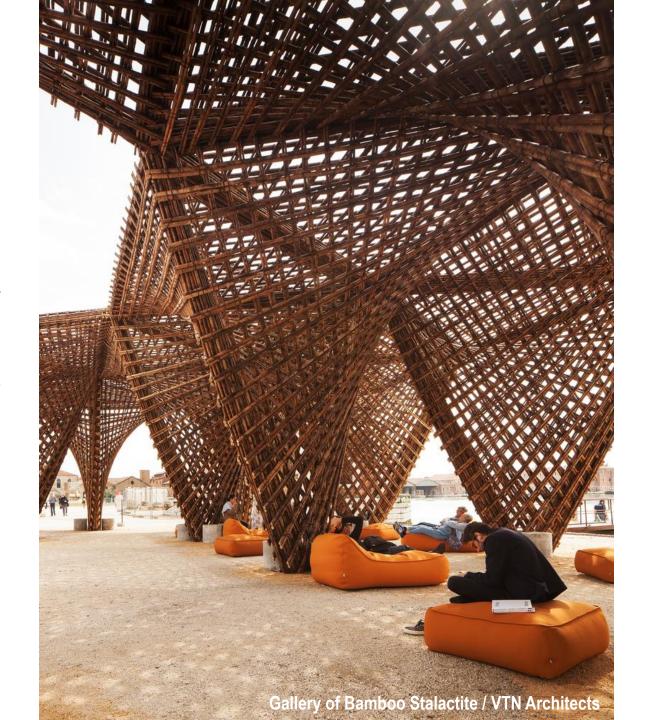
Extending your ideas further

Extend some of your ideas further by experimenting with them to find out how they could be used as a shade structure for this site. You should extend some ideas from each starting point (the wharenui, and the works of your chosen architect). You might extend the ideas separately or you may combine them together.

Use visual communication techniques to extend your ideas in interesting directions. Experiment further with form.

You could add in features such as spatial arrangements and experiences, architectural materials, relationship with site, people and purpose. Use visual techniques such as quick physical and digital models, freehand sketches and exploratory drawings.

Think about the canopy (roof), the platform (base) and any seating in between.



presenting your learning:

In completing this assignment you will need to submit a portfolio of work that will include:

- showing source images for each selected starting point
- brief notes or labels that identify characteristics (aesthetic, functional, spiritual or metaphorical) of the source images
- exploring starting ideas (as simple 3D forms) from each of the source materials you collected
- extending ideas for a shade structure design using visual techniques to experiment with aspects of form and function
- extending ideas from each starting point either separately or in combination

Visual communication techniques used include:

sketch models; quick SketchUp (CAD); 2D and 3D sketching; photography; overlays







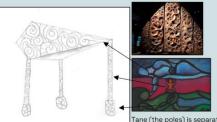
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https://www.azuremagazine.com/article/a-quebec-city-footbridge-connects-to-the-past-and-future/

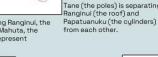
https://sailmakers.co.nz/cultural-shade-structu

LEVEL ONE SPATIAL DESIGN STUDENT OUTCOMES FROM 2023

3D forms, inspired by the creation story:



The roof is representing Ranginui, the poles represent Tane Mahuta, the culinders at the end represent Papatuanuku





This relates to the creation story as the Korus on the top represent Ranginui trying to reach the mother earth which are the Korus on the bottom representing Papatuanuku.



top of the shape represents Ranginui looking down onto Papatuanuku.

The designs on the top of

the pole like shape are the

sky father and the wind

blowing. The Vines on the

bottom represent nature

and mother earth.

Papatuanuku is represented by the Korus on the base of the shape growing towards the sky trying to reach Ranginui.



The Korus on the triangular shapes of the dome represent mother earth's (Papatuanuku) wildlife and the triangular shapes that would be glass represent the Sky Father



his shape represents the connection of Ranginui and Papatuanuku before theu separated by Tane Mahuta.



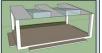
Final design idea:



This final design is a combination of my for designs on the creation story and the architect I chose, Mies Van Der Rohe. It is designed to be a shade structure and communal space that can host outdoor classes and can be used at lunch times.

Inspired by my previous designs:



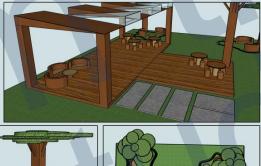








Use of natural materials to tie in to the surrounding environment.





Crown Hall. I used colour,

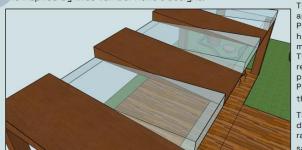
shapes and materials to

show references to the

design of the Crown Hall,

also with similar shapes.

There are small seating areas scattered around with fake architectural trees for a shaded area. These can be used at lunch or for interviews. The simplicity of the trees and furniture is inspired by Mies Van Der Rohe's designs.



Fake wooden trees to make shade and to represent the creation story.

The wood triangles are inspired Papatuanuku, they have nature inspired material of wood. The glass triangles represent Ranginui parting from Papatuanuku up to



partly inspired by

Farnsworth house.

Papatuanuku is the trunk - grounded Ranginui is the leaves - above everuone. looking down Tane Mahuta is the rectangular branch like supporting

shapes pushing

Ranginui and Papatuanuku away from each

I used similar

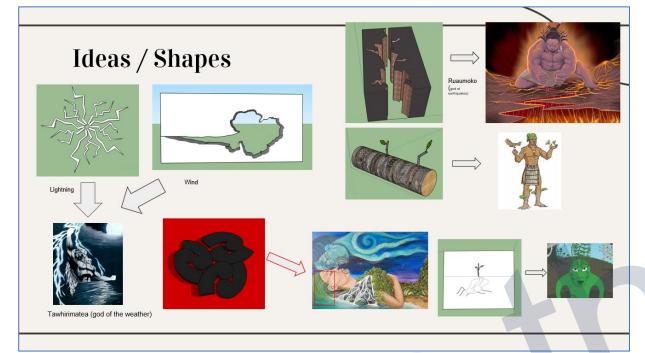
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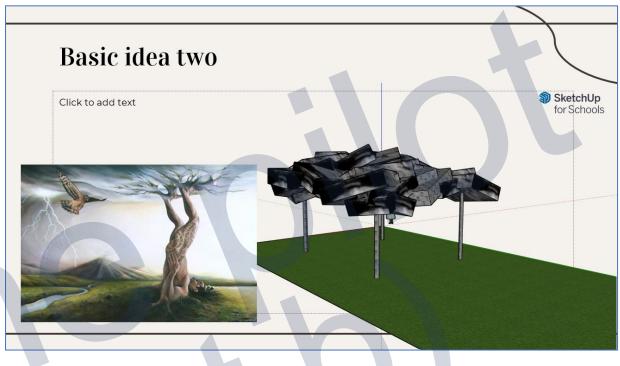
barcelona pavilion and the triangular

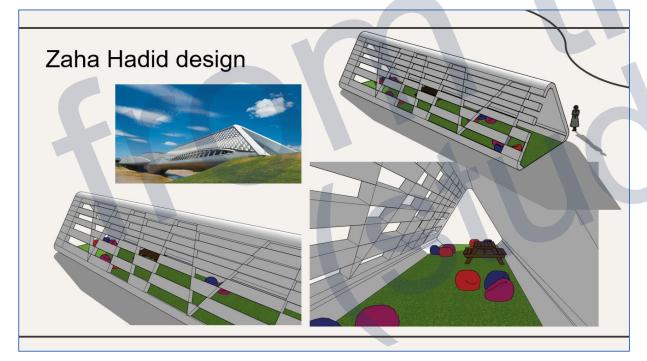
shaped cover/roof references the

triangles on the Villa Tugendhat.

The triangular shapes roof is inspired by Mies Van Der Rohe's designs as some of his designs have triangular roofing and railing. - the glass would be UV protective to ensure sun safety for the people sitting underneath.







Final design - from the ground

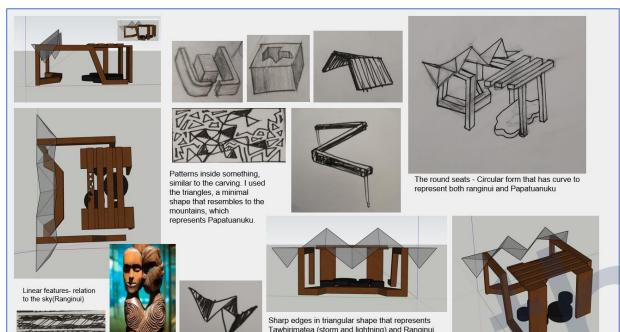


My final design is inspired by the Maori creation story and Zaha Hadid

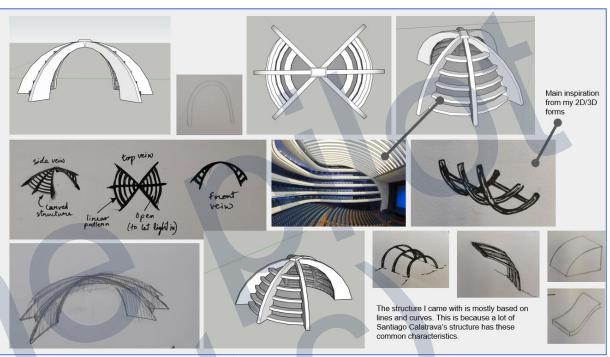
The curved shell like structure is inspired by Zaha Hadid's countless curved futuristic looking designs like the Galaxy Soho and the Heydar Aliyev Centre but it's also inspired by the god of Weather Tawhirimatea. The structure reflects a cloud like shape with the separated beams displaying streams of wind sliding over it.

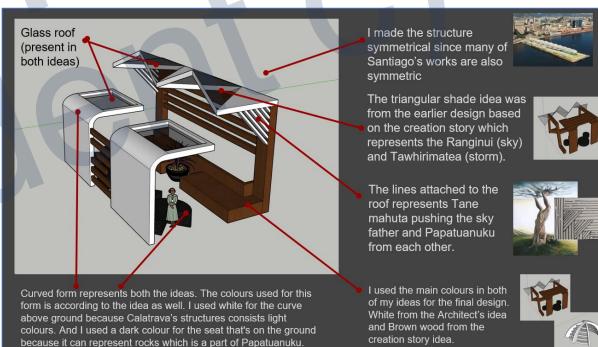


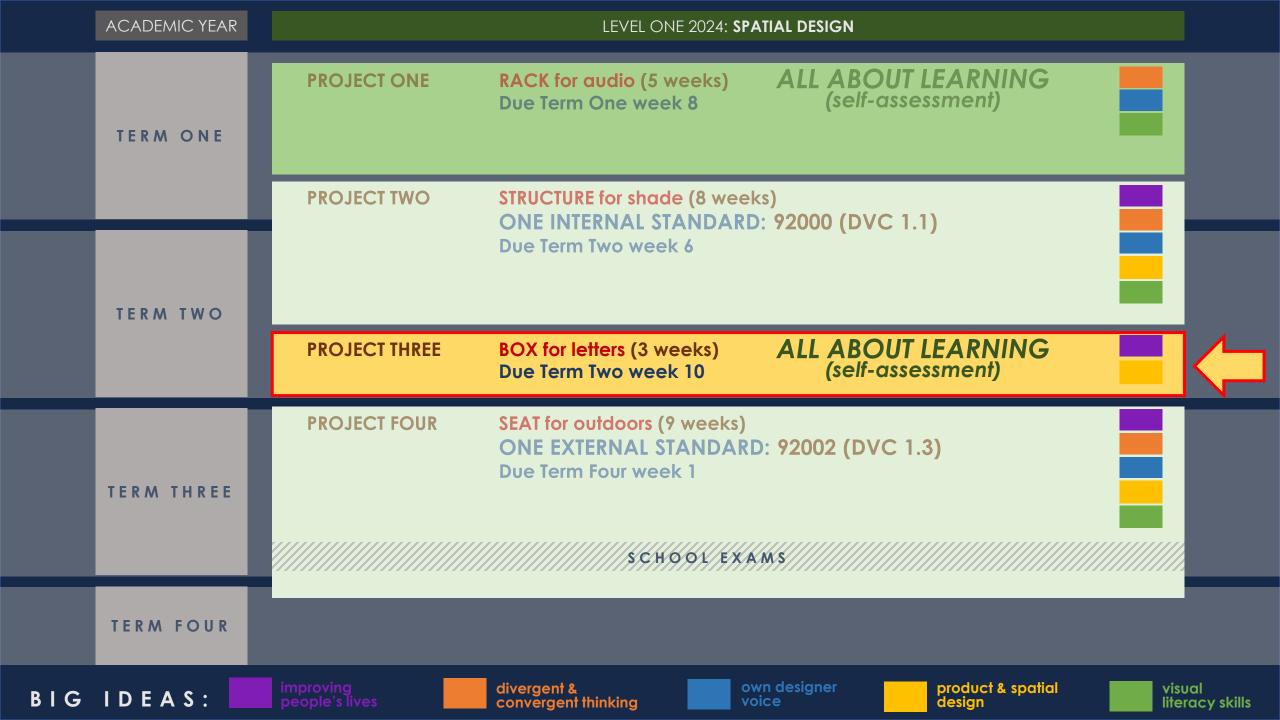












project://three/BOX (for letters)

(Quote to come...)

activity summary:

Develop the design concept of a unique and original letterbox for where you (or another family member) live.

considerations:

You are required to develop the design of a letterbox that will:

- consider **functional elements and principles** relating to outdoor conditions and security, storage and accessibility to packages, envelopes, newspaper, flyers, etc.
- consider **aesthetic elements and principles** relating the outside of the letterbox design (such as style, form, shape, colour, pattern, texture, etc.)



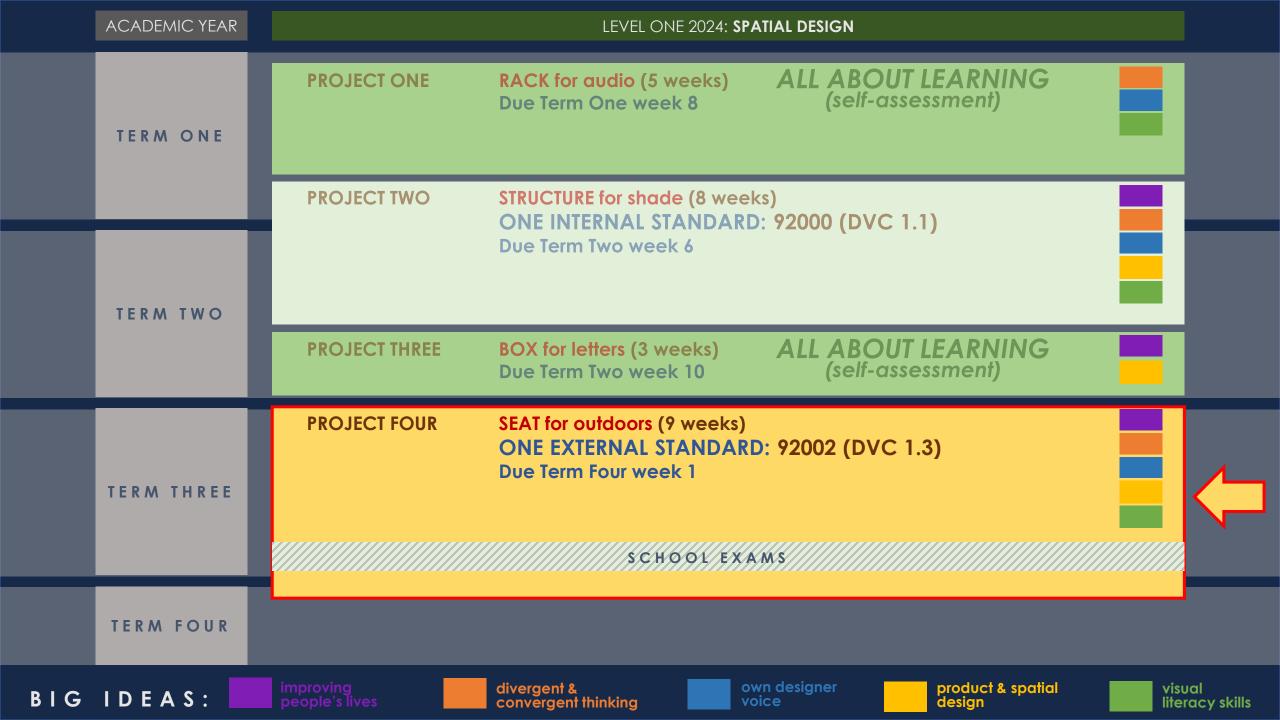












project://four/SEAT (for outdoors)

activity summary:

Design an **outdoor seat** suitable for an **outside entertainment area** (e.g. café, barbeque area, deck, beach, park, etc.) The seat is to suit the specific requirements of a specified setting and be suitable for **general outdoor use for that location**.

considerations:

You are required to design an outdoor seat that will:

- consider the specific requirements of your selected setting
- consider **functional elements and principles** relating to outdoor furniture and equipment (such as durability, materials, maintenance, construction, ergonomics, etc.)
- consider **aesthetic elements and principles** relating to inside and outside furniture design (such as style, form, shape, colour, pattern, texture, etc.)









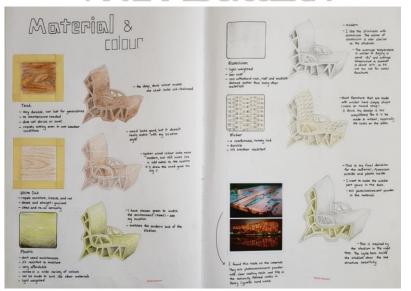
'Always design a thing by considering it in its next larger context - a chair in a room, a room in a house, a house in an environment'



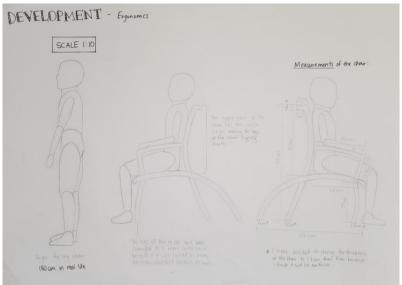
Develop and refine design ideas informed by the consideration of people:

- using visual communication techniques to consider functional and aesthetic details of a design outcome and key design decisions
- demonstrating that people, and their connection with place, have informed the progression of design ideas
- integrating functional and aesthetic features that improve the design outcome
- developing a design outcome that shows an understanding of what people will experience

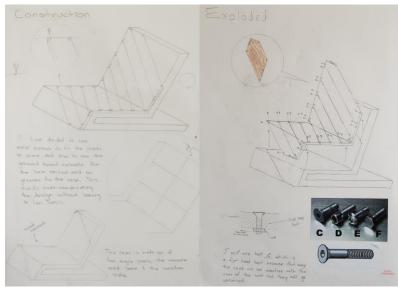
MATERIALS&COLOR



ERGONOMICS & MEASUREMENTS



CONSTRUCTION & ASSEMBLY

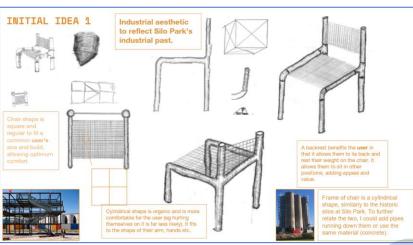


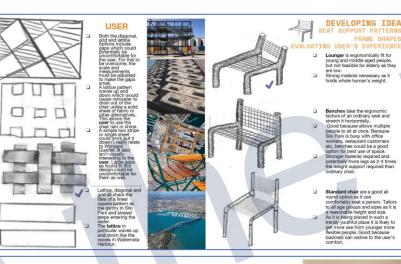
P2: FORMAT OF SLIDES – excellence example 2 (meeting the external requirements – max. 15 pages):

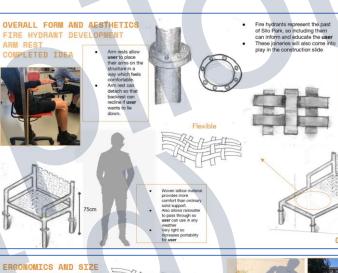


DEVELOPING CONSTRUCTION DETAILS PRESENTING FINAL DESIGN

PRESENTING FINAL DESIGN







~1:40

50cm





keep it in place.

DEVELOPING IDEA

Lounger is ergonomically fit for young and middle aged people, but not feasible for elderly as they are low.
 Strong material necessary as it holds whole human's weight.

Benches take the ergonomic factors of an ordinary seat and stretch it horizontally.

Good because allows multiple people to sit at once. Because Silo Park is busy with office

workers, restaurant customers

etc, benches could be a good option for best use of space.

Stronger material required and potentially more legs as 2-3 times the weight support required than

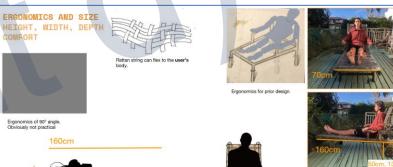
Standard chair are a good all round option as it can comfortably seet a person, Tailors to all age groups and sizes as it is a reasonable height and size.

As it is being placed in such a trendy youthful place it is likely to

get more use from younger more flexible people. Good because

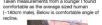
COMFORT

FRAME SHAPES



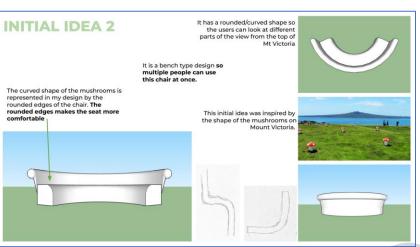


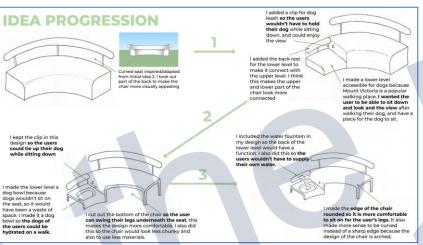
70cm

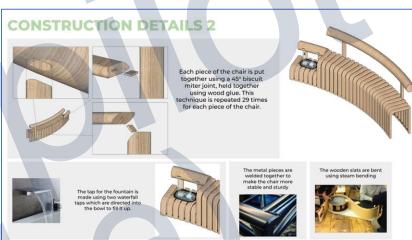


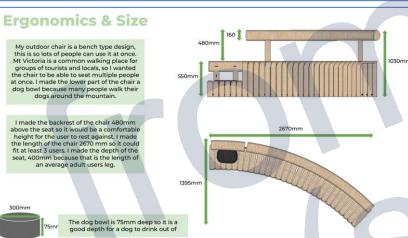


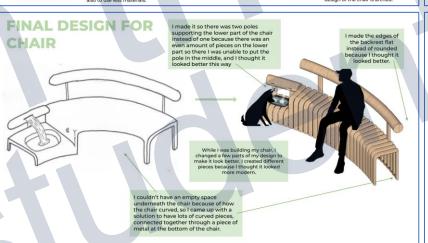
COMPLETED FORM





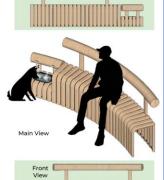








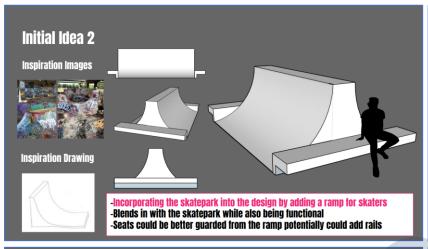


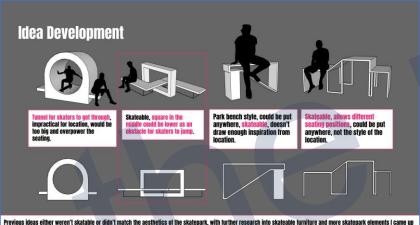


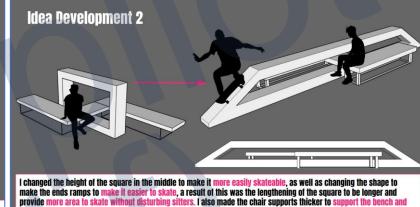
Back

View



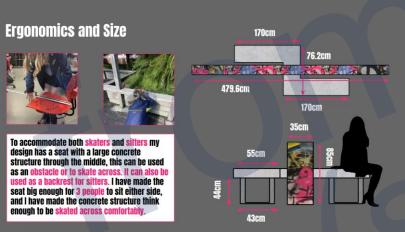


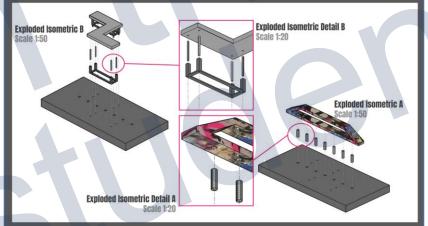




odate a skateboard.

people sitting on it and the width of the square bigger to accor







THANK YOU GO WELL WITH YOUR YEAR AHEAD