



National Certificate of Educational Achievement
TAUMATA MĀTAURANGA Ā-MOTU KUA TAEA

Exemplar for Internal Achievement Standard Design and Visual Communication Level 2

This exemplar supports assessment against:

Achievement Standard 91341

Develop a spatial design through graphics practice

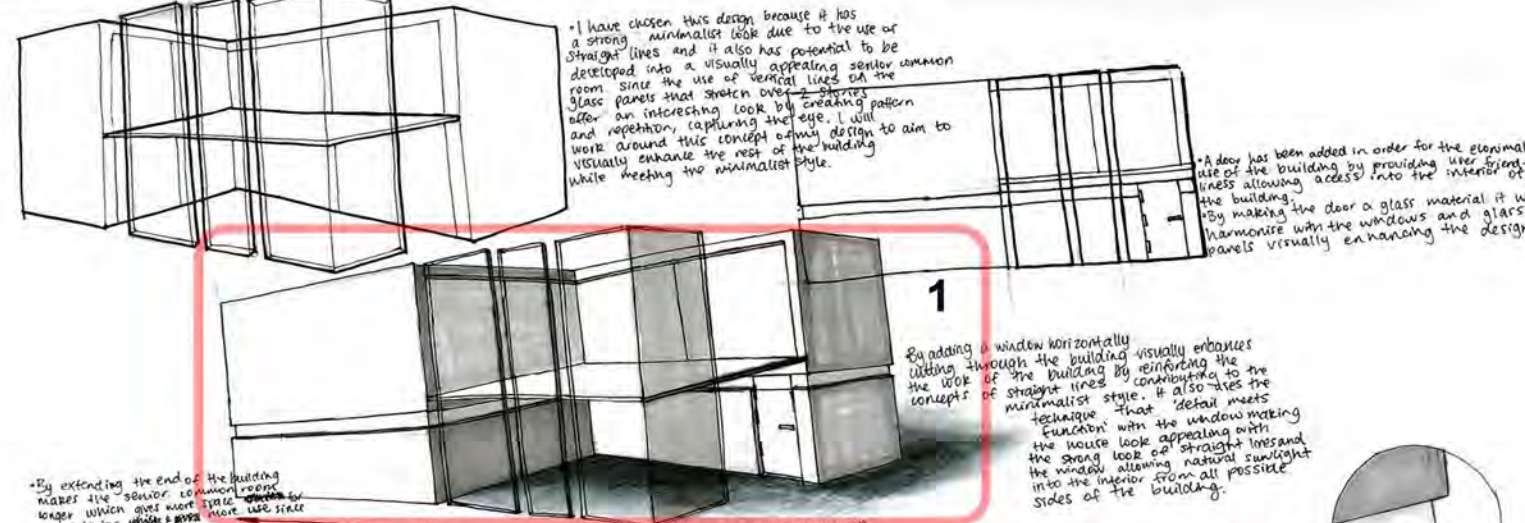
An annotated exemplar is an extract of student evidence, with a commentary, to explain key aspects of the standard. It assists teachers to make assessment judgements at the grade boundaries.

New Zealand Qualifications Authority

To support internal assessment

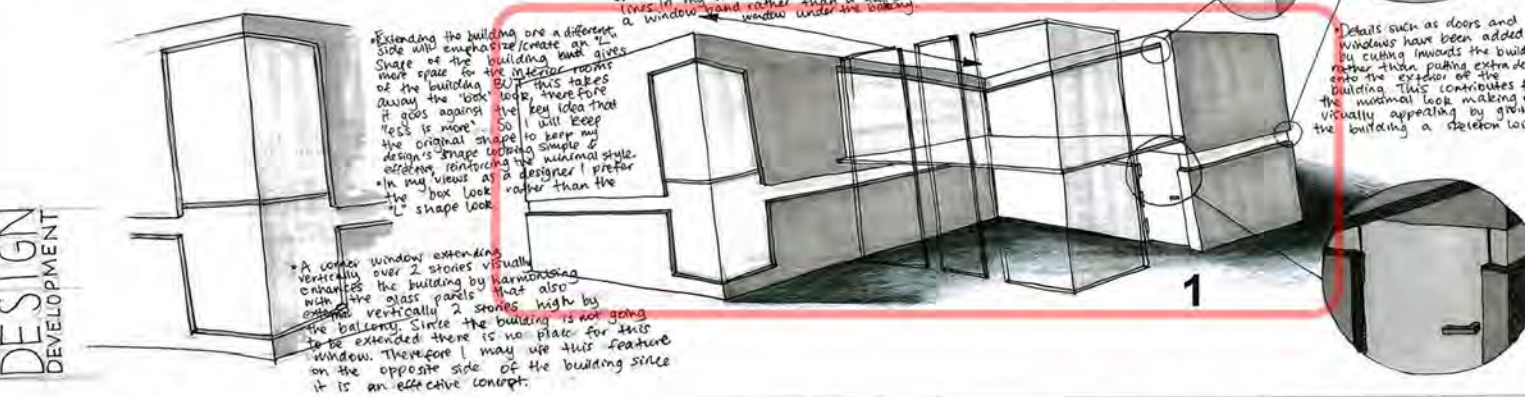
	Grade Boundary: Low Excellence
1.	<p>For Excellence, the student needs to effectively develop a spatial design through graphics practice.</p> <p>This involves reviewing and refining well-considered design ideas that integrate spatial design knowledge throughout the development.</p> <p>This student has effectively developed a spatial design for a senior common room that demonstrates the integration of design tools, technical knowledge and visual communication techniques (see Explanatory Note 4).</p> <p>An understanding of Minimalism has been integrated throughout the design ideas (1) (2) and (3).</p> <p>Well considered design ideas, i.e. ideas that are linked together effectively, are starting to be evidenced in this portfolio. There is also evidence of the design ideas being reviewed and extended throughout the design process, to move the ideas to a final solution.</p> <p>There is clear evidence of the integration of technical knowledge (4) and visual communication techniques (5) throughout the submission.</p> <p>For a more secure Excellence, the student could strengthen the visual communication skills used in the submission to show the well-considered design ideas required at this level.</p>

How to make the building visually appealing?

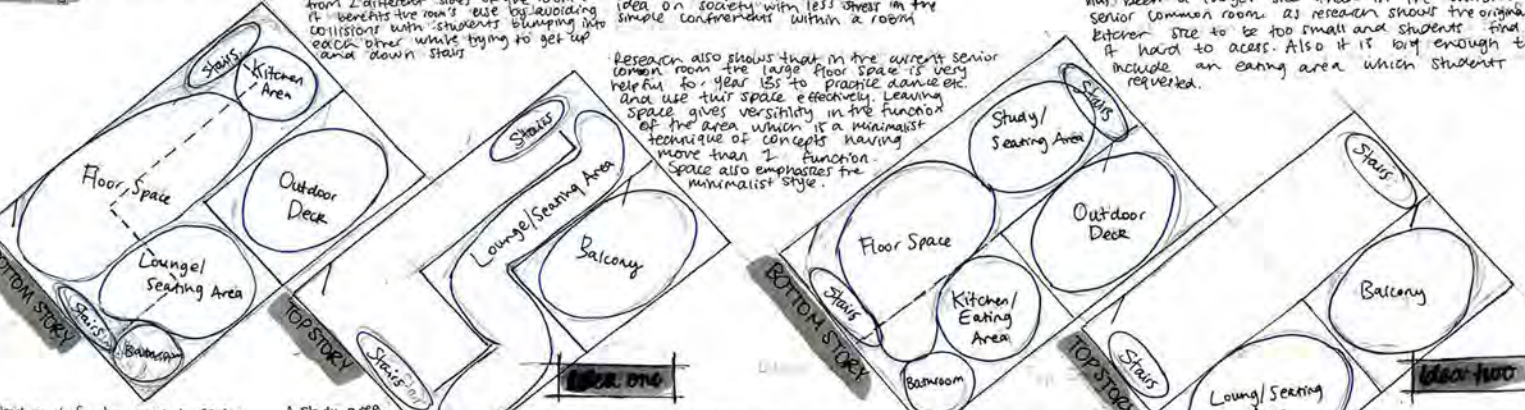


By extending the end of the building makes the senior common room larger which gives more use since there can be larger rooms. This benefits the function of the senior common room.

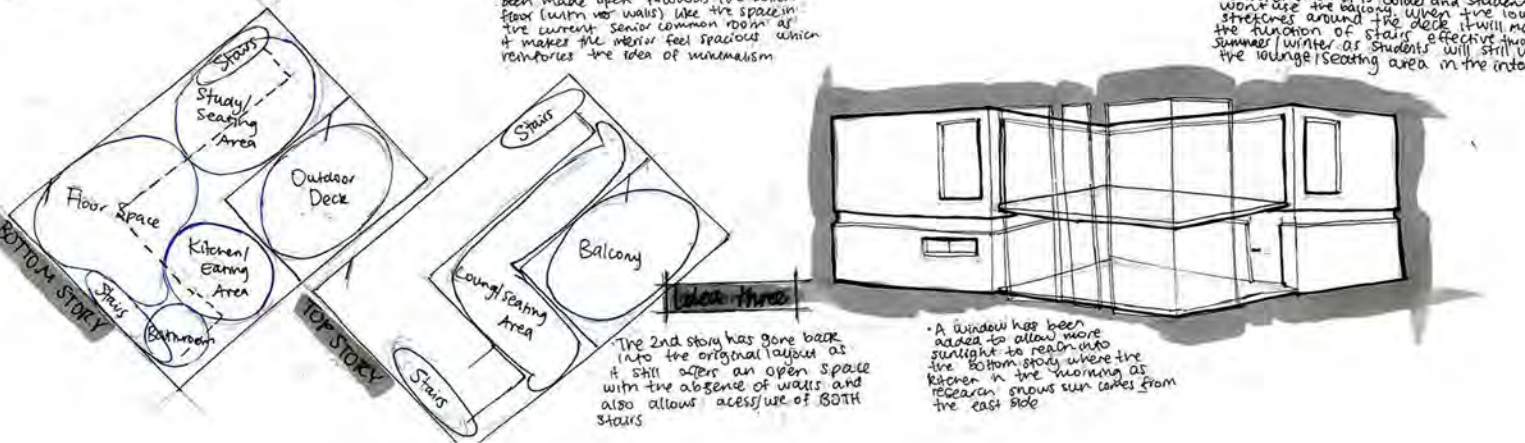
DESIGN DEVELOPMENT



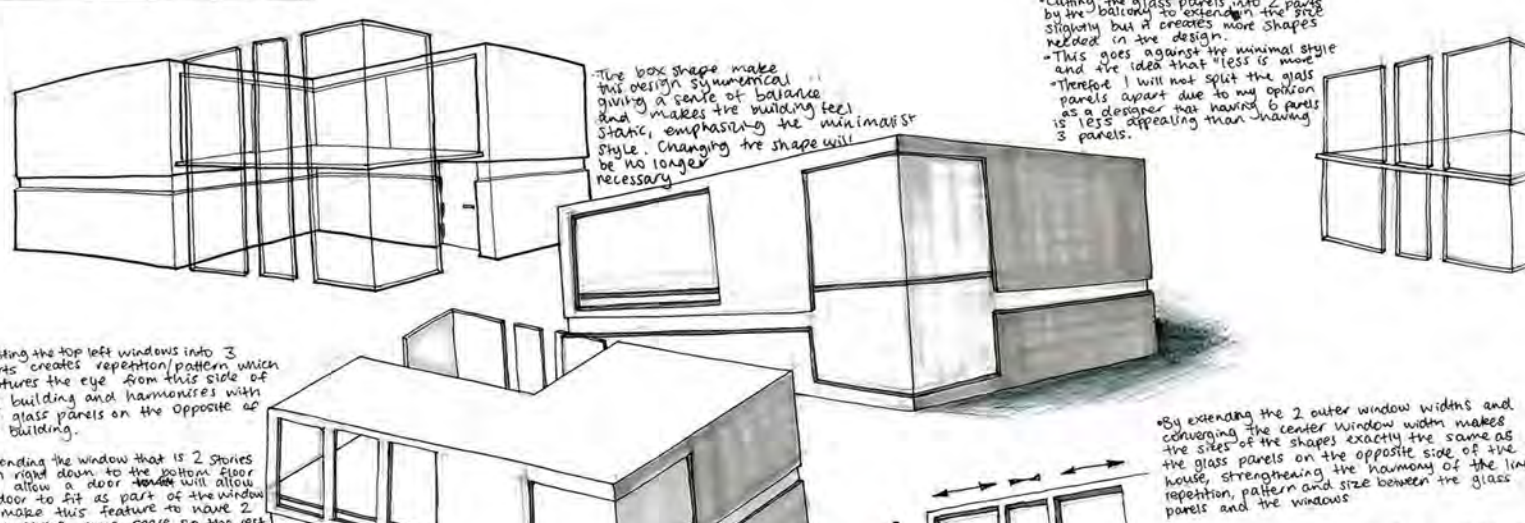
How will the rooms be set out inside the building?



A bad point for the current senior common room is that students complain about the kitchen being too small. In order to meet their needs the kitchen will need to be larger to be able to provide a table/eating area as well as enough space to move around the kitchen bed.

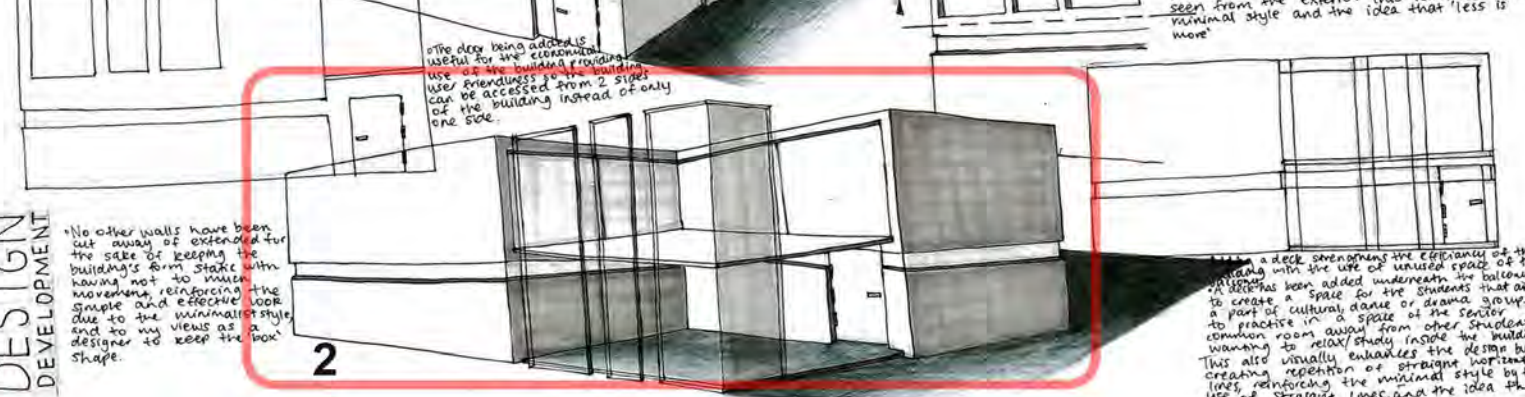


How to make the building visually appealing?

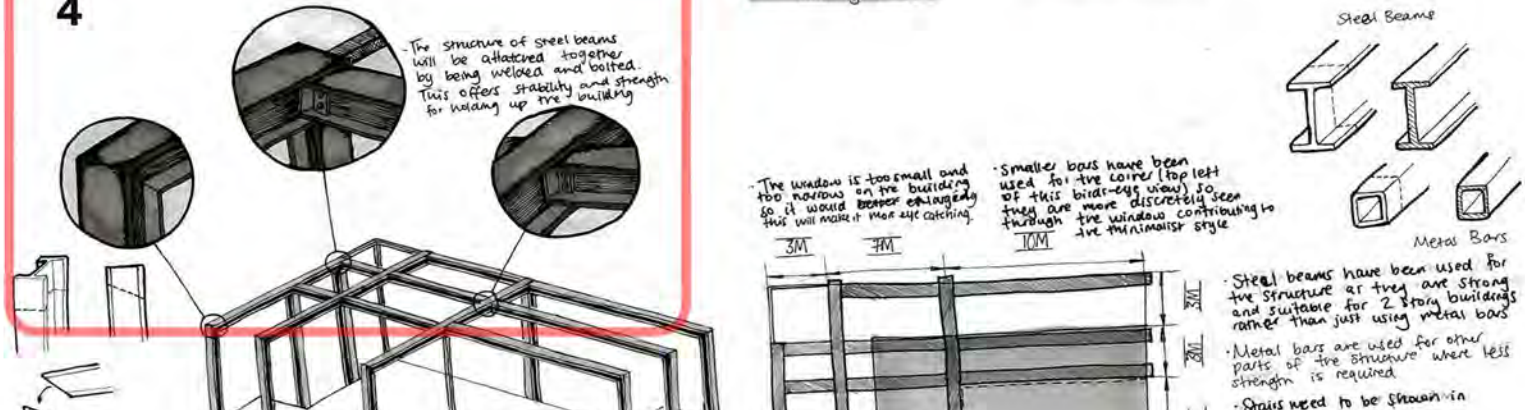


By extending the window that is 2 stories high right down to the bottom floor will allow a door to be added to make this feature to have 2 uses, giving more space on the rest of the exterior walls reinforcing the minimalist style and the idea that less is more.

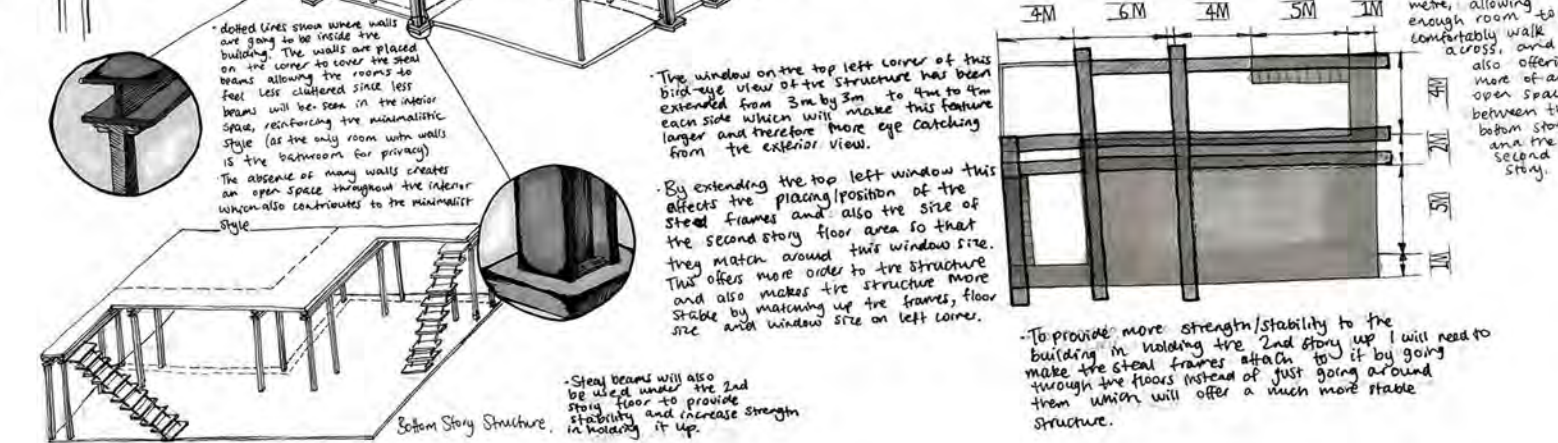
DESIGN DEVELOPMENT



How will the structure of the building be effective in holding it up?



Smaller bars have been used in the corner (top left) of this bird-eye view so they are more discreetly seen through the window contributing to the minimalist style.



By extending the top left window this affects the placing/position of the steel frames and also the size of the second story floor area so that they match around this window site. This offers more order to the structure and also makes the structure more stable by matching up the frames, floor and window size on left corner.

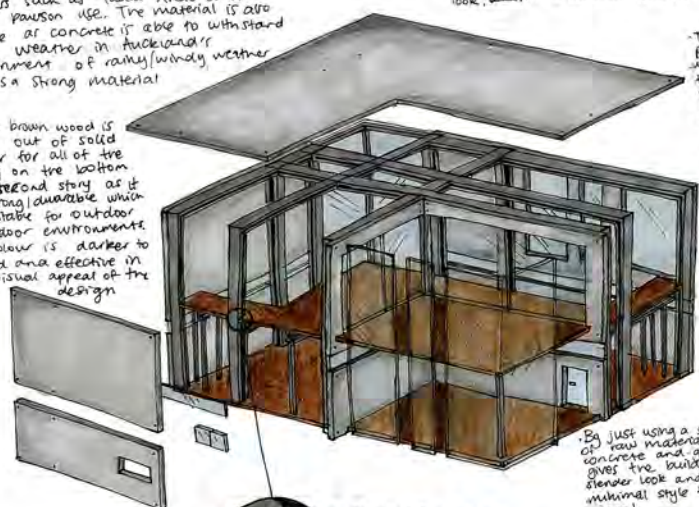
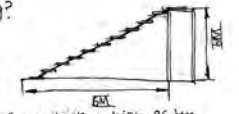
Steel beams will also be used under the 2nd story floor to provide stability and increase strength in holding it up.

To provide more strength/stability to the building in holding the 2nd story up I will need to make the steel frames attach to it by going through the floors instead of just going around them which will offer a much more stable structure.

Pure concrete has been used for the walls, they create an unfinished look by using raw materials. It goes by the minimalist technique that designers such as Tadao Ando and John Pawson use. The material is also suitable for Auckland's environment of rain/windy weather as it is a strong material.

The ceiling and walls are bolted onto the structure using bolts will provide stability that contribute to a raw look that as they will be able to be seen which gives a skeleton look, whilst is a minimalist technique.

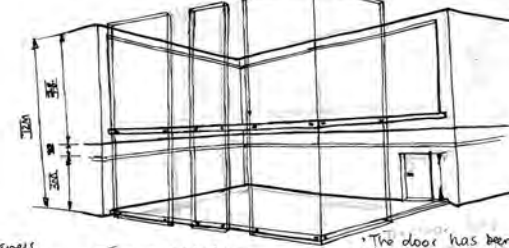
How will materials contribute to the building?



The glass windows will be slightly frosted providing privacy for the students which is an important value for them to have in the senior common room. They are still able to let natural sunlight in.

The glass panels will remain fully transparent to allow the balcony to be viewed from the exterior.

The building will be made 11m high as the stairs is half the height going up at a 45° angle extending 6m which makes the building tall-stand out in the school environment.



The glass panels will be bolted down just like for concrete panels as it provides stability and will be seen from the exterior view making a raw, skeleton look-reinforcing the minimalist style.

There needs to be a way to be able to open the top story windows to allow access to the balcony.

The door has been made no longer being attached to the horizontal window as that makes the high too tall and un-proportional for the function of the back door to be over 3m high so it will be now around 2m.



The steel frames go through the 2nd story instead of being hit around the flooring and go underground at the bottom to increase stability of the building's structure. This is related to structural foundation. The flooring will be cut into the shape of the steel beam in order for the beams to slide through the flooring.



The absence of bright colours emphasizes a more simple and effective look; the darker grey and brown colours (shades) are bold and striking which makes the building stand out from the school environment and makes the building feel modern and industrial-contributing to the minimalist style.

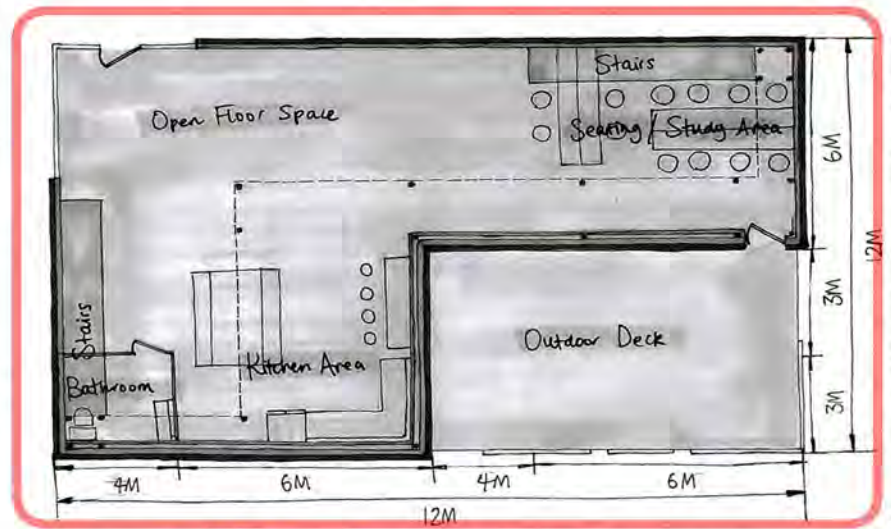
The front door is made out of wood to harmonize with the deck/balcony on the opposite side, making the building visually appealing by creating repetition.

The absence of walls in the interior floor plan makes the room feel open and spacious giving a minimalist style of only using features that are a necessity to the building's design. The only walls inside the floor plan are used for the bathroom for privacy. It makes the room feel less cluttered and follows the minimalist technique that 'less is more'.

The area of the kitchen is 6m by 6m, it is a large proportion of the floor plan on the bottom story as it also includes an eating area for students. Research shows that students prefer a much larger kitchen area as it was too cluttered and they also wanted an eating space so the site of this area is efficient in meeting their values.

The bathroom area is 4m by 3m which is an ideal size, it is on the bottom story which makes it easy to access from students close to the senior common room, needing to use it. It has been placed off the kitchen to make it effectively close by when student require it after leaving.

Having 2 sets of stairs allow the students access to the upstairs 2nd story from the 2 different sides of the room so it benefits the room's functionality avoiding collisions with the glass blurring into each other while trying to get up and down stairs. The stairs also save time in students having to walk to the other side of the room just to get upstairs since the floor plan is quite a large area.



The seating/study area has been made 6m by 6m which is enough space for students to study in their break times. This meets the students' values of want an area to be able to study in peace. It is tucked away in the bottom story corner instead of in the center in order to allow students to focus in a quiet area away from the kitchen/bathroom.

With the balcony being 10m by 6m makes it a quarter of the size of the building, therefore it is a large proportion on the site. Research from the current senior common room shows that over 135 use the deck to study or sit at lunch intervals very often to be an outdoor area. It is where most students spend their time while using the senior common room. The large proportion of the balcony is an efficient size so many students can use this space at once.

3

The width of the stairs and walk way to the lounge/seating area on the 2nd story has been made 1metre. This allows enough room to comfortably walk across and also offers more of an open space between the bottom story and the 2nd story since there are no walls.

The width of the lounge and seating area next to the balcony is 2 metres which gives enough room for students to sit on a bench going along it and students to walk along it at the same time.

Branon sliders will open up the walls of the balcony just like in the current design of the senior common room as it shows effects in research-allowing access to the balcony and making the room and the seating/lounge area feel open, spacious and larger.

Making the building measurements 20m by 12m gives an area of 240m² which meets the specification for the building's floor space. This is a suitable size as the building is not too narrow, nor too wide, making it efficient to arrange the kitchen, bathroom, lounge, seating area and balcony in the floor space.

Visual appeal
 The glass panels that stretch over 2 stories offer an interesting look by creating repetition, capturing the eye. It follows the minimalist style by 'detail meeting function' as it is used as a safety barrier and wall barrier around the balcony but still being visually appealing. It offers more than function which makes this an effective feature of the building.

The box shape makes this design symmetrical giving a sense of balance and makes the building feel static-emphasizing the minimalist style.

The small amount of raw materials-wood, concrete and glass gives this design a naked and unfinished look that makes it slender, reinforcing the minimalist style that 'less is more'.

The absence of bright colours emphasizes a simple and effective look, the darker grey and brown colours (shades) are bold and striking which makes the building contrast with the natural colours of the environment. It makes the building feel industrial and modern-contributing to the minimalist style.

Environment

By placing the side of the glass panels and balcony facing the north-east direction is effective as this is an eye catching feature, creating a positive aesthetic contribution to the school environment that can be seen by the public's view on Manukau Road (on the east side) where cars drive past on the way to and from New Market.

The sun starts shining from the east side, travels around to the north side by mid-day and through to the west side by the afternoon. By placing the deck/balcony on the north-east side it will allow exposure to sunlight most of the day. This will effectively be used by students to sit at lunch time or study during the day.

Research shows that students have much use out of the deck during lunch intervals and study break periods in the course of a sunny day, therefore makes the position of the building effective.



Size
 The measurements 20m by 12m gives an area of 240m² which meets the specification for the building's floor space. This is a suitable size as the building is not too narrow nor too wide, making it efficient to arrange the interior floor plan rooms such as the kitchen, bathroom, study area etc. This is shown on the final floor plan.

Spacing
 The spacing of the rooms of this design match up with the exterior layout of materials/features. For example the kitchen has a window on the bottom story that opens to allow fresh air inside. Natural sunlight to reach through and the balcony has branon sliders which slide and make the building feel spacious. More of the special planning has been mentioned in the final floor plan.

Material / Structure

The frosted windows allow privacy for the year 13 students which is an important value for them. Research of the old-current senior common room. They are still able to let sunlight in which makes them effective in function.

The bolts are still able to be seen from the exterior which gives a skeleton look, reinforcing the minimalist style that 'less is more'.

The metal bars are used to hold up the 2nd story and are also supported by steel beams which are suitable for building 2 story buildings up and withstand heavy weight like concrete.

The steel frames are made for concrete foundation which means they go underground to increase the building's stability.

Pure concrete is used for the walls as panels. They create an unfinished look by using a raw material. It follows the minimalist-technique that designers such as Tadao Ando and John Pawson use. The material is also suitable as it is able to withstand Auckland's harsh weather of rain/wind.

The wood is made out of timber which is suitable for an indoor/outdoor environment. It is strong and durable for the use of flooring in the building.

Other student work was submitted but not included in this exemplar

	Grade Boundary: High Merit
2.	<p>For Merit, the student needs to clearly develop a spatial design through graphics practice.</p> <p>This involves:</p> <ul style="list-style-type: none">• reviewing and refining design ideas that incorporate spatial design knowledge• making design judgements on relevant features of the design, in response to the brief, that inform the progression of design ideas. <p>The student has designed a structure for a senior common room.</p> <p>This student has reviewed and refined design ideas, incorporating spatial design knowledge, with design judgements on the relevant features of the design. The visual ideas are supported by modelling and the exploration of ideas.</p> <p>There is clear progression through the development of the design ideas, with a dominant focus on the aesthetic aspects of the design (1).</p> <p>There is good integration of spatial design knowledge during the layout and design phase, where the decisions made are sound (2).</p> <p>To reach Excellence, the student could develop the form of the spatial design further, to more clearly show well-considered design ideas. Investigation of functional elements such as materials, interior spaces and flow (3) could also move this sample into the Excellence grade area.</p> <p>The integration of spatial design knowledge would also need to be strengthened.</p>

HOW TO MAKE BUILDING VISUALLY APPEALING? DEVELOPMENT

The addition of a balcony adds interest to the left-hand side of the senior common room. Previously, the side looked dull and plain - which is the opposite of high-tech architecture aesthetics. The vertical fabric's close with the right hand side, so the common room looks more balanced. Functionally speaking, the balcony means that the girls can relax on the balcony. The balcony could potentially be closed to save space so it can make a good use of the sunlight. If placed this way the balcony could be popular with students who want to get some fresh air and sunlight.

The glass doors at the bottom of the common room have been retained. I wanted more contrast in the building so I removed some of the glass. Now the concrete look's bold because the glass wall and window. I had to think of an alternative entrance for the common room.

The balcony length has been shortened because it was too close to the steel columns. It looked messy and uneven was cluttered so the length has been shortened.

I chose to alter the steel columns shape. I made the columns more square to match the other steel columns on the right hand side of the building. I feel that this unifies the common room.

The steel columns can be seen from above as the bottom of the balcony is glass. This highlights the idea of high-tech architecture of visible structure.

I decided that the previous balcony design was too bold. The columns above the balcony almost would block the purpose of getting fresh air and sunlight out in the open. Having the steel columns above the balcony means that the space is not restricted. I may need to change the X sign in some way because it almost looks like it is part of a minimalist balcony.

I decided to extend the steel columns so that they now extend through the building. Under this idea is more appropriate for my chosen architectural movement. This balcony design still keeps the structural look. I intended for it to have, but it is open and true to my chosen movement. The fitting out columns add interest to an otherwise minimalist design.

This close up of one of the steel columns shows the sharp corner and flat shape. This will be made of steel.

I have added four steel columns to the balcony. This emphasises the exterior structural features that are commonly seen in high-tech buildings. The four columns are purposefully similar to the right hand side of the building - they make the side look balanced. The shadow of the columns also could produce shade for a nice area up on the balcony. I may need to adjust or refine them because it could feel like a wall and not as open as originally intended.

1 HOW TO MAKE BUILDING VISUALLY APPEALING? (DEVELOPMENT)

The design at the moment has a rectangular base. I want to extend the overall area because it is fairly small at the moment. The senior common room needs to be fairly large as many students use it - not just year 13s, but cultural groups too.

I have changed the shape of the senior common room to look like this. The shape is overall larger than before and is more interesting than a plain rectangle. The corner of this new shape has opened to allow rain windows. This area will have steel vertical steel columns.

I've now added the details into the new shape. The balcony is placed further away from the steel columns on the right - so that the details won't split the details apart. If they were closer I think that the building could look too busy.

I placed another set of bi-fold/large doors into the design. They will be across the main entrance, and look like they're recessed. I didn't put the entrance doors on the concrete wall because I want that to remain blank and unobscured.

This is the base of the improved senior common room building. As well as being not too plain and too cheap to house fit students, the open space allows for placement of study areas, kitchen, bathroom etc.

glass (ground to ceiling) wall with steel detail

I have split the balcony into two. This was because the balcony would be too long and the minimalist. Practically speaking, the split means that inside the building there can now be two rooms within the block between the balcony. I've kept the steel columns design because I think it is true to my high-tech movement and I have previously referred the design to a high standard which I am pleased with.

DEVELOPMENT CONTINUED

This is the current front/side side - after the requirements, reviewing and adjustments to the exterior.

This is the other angle of the senior common room with the continuation of the steel columns over the roof.

Existing floor plan. Scale 1:100

SITE ANALYSIS

2

This close up of the steel columns shows the angle, thickness and placement.

This is the front on view of the senior common room. I have made the steel columns run over the entire building so the structural details flow better. The columns go over the roof and to the other side of the building - as the picture on the right top hand corner shows. I have made this feature very prominent because it makes my senior common room suited to my chosen architectural movement. I was inspired by the look of the Centre Pompidou, although I simplified the structural look and used the basic concept of it.

This close up of the steel columns on the left side of the building shows the simple right-angle and fold over the glass.

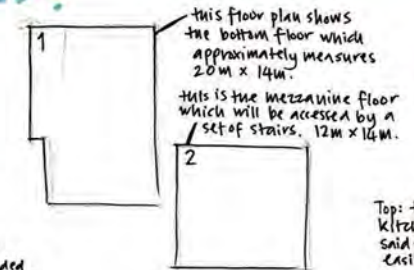
HOW WILL IT BE PLACED ON SITE?

How will it be placed on site?

FINAL INTERIOR LAYOUT

FINAL INTERIOR LAYOUT

HOW WILL SPACES BE ARRANGED?



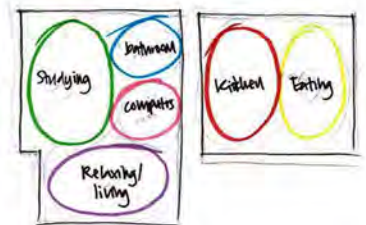
this floor plan shows the bottom floor which approximately measures 20m x 14m.

this is the mezzanine floor which will be accessed by a set of stairs. 12m x 14m.

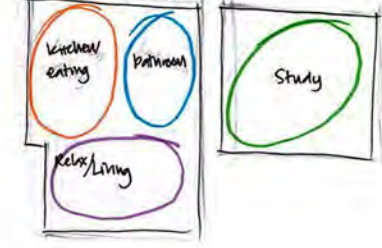


Top: the current kitchen which is said to become easily crowded
Right: the open floor area that opens north to a sunny wooden deck

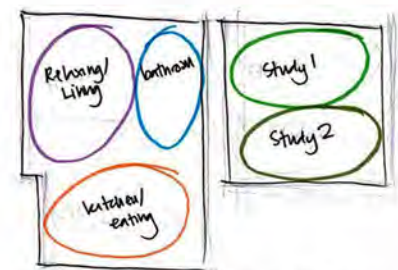
To fit the purpose of the Senior Common Room, my design needs to have certain areas and spaces. Girls spoke to mentioned that quiet studying areas are needed to prepare for exams, large open areas for relaxing / dance rehearsals would be useful as the current senior common room has an area like that which is often used. Practically speaking, girls would need a kitchen and bathroom. Students have said that the kitchen in the current building is used a lot but becomes crowded and hard to get around during lunchtimes. I will need to have an open plan and large kitchen space so students maximize use. Study areas should be large enough to house well spaced tables and possibly computers. I will also need to consider placement of areas and sunlight so my interior layout suits students' needs as well as possible.



- I moved the kitchen/eating area as I realised that it was natural for this space to be near the living space. This also means that the study area is on its own floor. This is very suitable because it is more private, quiet and separate which will increase focus.
- I took away the computer room as there was no strong need for it. Currently girls are getting along fine without computers, and this site is near the library.
- The bathroom has been expanded because a lot of girls vacate this building so an appropriate number of cubicles will need to be placed there.



- I have used the mezzanine floor as a kitchen/eating area. This could work because then the food area is separate and students could head out to the balcony to eat lunch.
- the living area would get the afternoon sun but in the morning might prove to be dark
- I have made the study area fairly large to accommodate girls who need to school work, it's placed near the computer room. I may need to rework this because the computer room is quite small as there is limited space.
- the bathroom doesn't need lots of light so I placed it in the corner where there won't be much light - plus it can't be seen from the outside (it's not by glass windows).



- I've split the study floor into two areas; this means that the 1st space will be more closed off and private as a wall will separate it from study space 2. The 2nd area will overlook the ground floors so might be noisier making it a less serious study space. I thought it would be good for students to have a choice.
- I swapped the kitchen/eating area with the open relaxing area. The bi-folding doors will let in a lot of sun so the relaxing space can be warm and extend outdoors - similar to the current building.
- the bathroom is beside the relaxing area and not so close to the kitchen which would previously be a bad combination due to smells, hygiene etc.

3

HOW WILL STRUCTURE SUPPORT BUILDING?

closeup of top of building's steel detail
welded to create wanted angle
rectangular steel columns welded together
welded into metal
beamed down securely
concrete foundation
beam
this close up shows how the steel beam is secured onto the concrete foundation

example of a load bearing wall
outside is smooth-looking so building looks finished.
ground
concrete blocks inside
the wall will be properly insulated so students will be warm in winter
mesh
support
concrete foundation well below the ground to make building stable

These blue lines show where I could potentially place my metal columns of the frames. Although this would hold up my common room the beams would interfere with my large glass bi-folding doors.

This option is much better suited to my building's design. The metal columns will go over the building and as well as holding it up, will be shown on the exterior. Because the front side is open it means my bi-folding doors can fully open with no interruption and easy flow.

Two of my building's walls will be load bearing concrete walls. It is appropriate because there are no windows on these faces so installation will be easy. The concrete will also do with the steel aesthetically because the concrete will be exposed from the outside. High-tech architecture usually has no exposed materials on the outside.

2

Other student work submitted has not been included in this exemplar

	Grade Boundary: Low Merit
3.	<p>For Merit, the student needs to clearly develop a spatial design through graphics practice.</p> <p>This involves:</p> <ul style="list-style-type: none">• reviewing and refining design ideas that incorporate spatial design knowledge• making design judgements on relevant features of the design, in response to the brief, that inform the progression of design ideas. <p>This student has clearly developed a spatial design for a structure, a senior common room, using graphics practice.</p> <p>Progression is shown because the idea generation stage has been effectively informed by the initial research. The development of the design ideas shows a process of review and refinement of the ideas (1) (2). The investigation of the form evolves, but tends to move away from the initial inspiration through this process (3).</p> <p>The site research (4) and the design judgements are incorporated effectively into the layout design. This aspect is moving towards well-considered design ideas, as the links between the ideas are clearly shown.</p> <p>The student produced evidence of research, an outcome in sketch format, site analysis and placement and other design work (not exemplified here).</p> <p>For a more secure Merit, the student could expand the depth of the design thinking and linking of design ideas, to move towards well-considered design ideas.</p> <p>The student could have further integrated the choices of materials and research of structure type etc. into the design ideas, to connect them together in a more logical way.</p>

design development

How can I make my building visually appealing?

THE CROSS IS TOO CHUNKY AND LOOKS OUT OF PLACE ON SUCH A NARROW BUILDING.

I LIKE THE LONG NARROW SHAPE OF THIS BUILDING IT IS MODERN AND ELEGANT HOWEVER MAY NOT PROVIDE A BIGGER ENOUGH AREA TO CATER FOR ALL STUDENTS.

1

I USED A DOUBLE LINE TO GET AWAY FROM USING A CROSS. IT DOESN'T VISUALLY BENEFIT THE BUILDING AND IS UNNECESSARY DETAIL.

BY ADDING TWO SMALLER PARTS TO THE BUILDING IT MAKES THE SHAPE OF THE BUILDING MORE VISUALLY INTERESTING. IT CREATES RHYTHM AND PROVIDES MORE SPACE.

THE LINES WHICH CROSS IN THE MIDDLE ADD MINIMAL DETAIL AND CREATE MOVEMENT BY DRAWING MY EYE VERTICALLY AND HORIZONTALLY UP THE BUILDING.

HAVING SLIM GLASS PANELS COVER THE FRONT OF MY DESIGN IS VISUALLY APPEALING AND MINIMALISTIC.

THE GLASS WINDOW CREATE A SENSE OF PATTERN. BY REPEATING THEM ON THE OTHER SIDE THE DESIGN IS SYMMETRICAL.

I PREFERRED A MORE SLENDER AND STRETCHED APPEARANCE AS IT LOOKED MORE ELEGANT.

STEEL BEAMS.

design development

How can I make my building visually appealing?

HAVING A FLAT ROOF IS OFTEN SEEN IN MINIMALISM IT CREATES A CLEAN CUT APPEARANCE.

THE SMALL TOP WINDOWS LET IN LIGHT AND HARMONISE WITH THE RECTANGULAR DOORS.

BACK

2

I PREFER THE DOUBLE GLASS DOORS TO BY FOLDING DOORS AS IT HARMONISES WITH THE FRONT ENTRANCE AND SITS THE SHAPE OF THE BUILDING BETTER. HAVING GLASS PANELS ON THE SIDE AS WELL AS THE FRONT IS TOO BUSY AND PROVIDES NO PRIVACY.

THE THIN CROSS HARMONISES WELL WITH THIS BUILDING AND ALSO ADDS ELEGANCE WHILE STILL KEEPING A MINIMALISTIC STYLE.

I TOOK THE BASIC SHAPE OF A RECTANGLE AND STRETCHED IT OUT TO MAKE A MORE SLENDER AND THIS CREATES A SENSE OF ELEGANCE.

HAVING THE MIDDLE SECTION OF THE BUILDING TALLER CREATES INTERESTING DETAIL AND WOULD ALLOW THE INSIDE TO HAVE HIGH CEILINGS.

THE TWO SIDE COMPARTMENTS WOULD LOOK MORE VISUALLY APPEALING AND ELEGANT IF THEY WERE NARROWER CREATING A SLENDER CLEAN CUT FINISH.

THIS BUILDING CLEARLY SHOWS THE MOVEMENT MINIMALISM. THE TALL GLASS DOORS ARE MODERN AND GRACEFUL AND SUIT THIS DESIGN BETTER THAN A CROSS. THIS DESIGN IS SYMMETRICAL. I HAVE USED THE PLAIN SHAPE OF A RECTANGLE AND STRETCHED AND SHUNK IT TO CREATE THIS DESIGN. THE DESIGN IS MADE OF RECTANGLES WHICH COMPLETELY HAPPY WITH ITS VISUAL APPEARANCE, MORE MINIMAL DETAIL NEEDS TO BE ADDED.

EXTEND AN OVERHANGING ROOFLINE I HAVE CREATED MOVEMENT AND ADDED MINIMAL DETAIL WHILE STILL HAVING A FLAT ROOF.

I DON'T LIKE THESE WINDOWS ON THE SIDE IT MAKES THE DESIGN TOO BUSY NOT MINIMALISTIC. SMALLER TOP WINDOWS WOULD BE PREFERABLE.

I LIKE THE SEQUENCE OF FOUR PANELS ON EITHER SIDE OF THE BUILDING IT CREATES A PATTERN BY REPEATING THE RECTANGULAR SHAPE.

THE GLASS DOOR CAN HOOK BACK TO CREATE A FREE STANDING GLASS PANEL. THIS LOOKS ELEGANT AND WOULD BENEFIT THE USERS WHO COULD WALK IN AND OUT EASILY.

THIS BUILDING APPEARS VERY MINIMALISTIC. IT IS SLENDER AND LONG CREATING MOVEMENT BY DRAWING YOUR EYE TO THE BACK OF THE BUILDING. THE LARGE GLASS DOORS ARE MODERN AND CHIC LOOKING. THEY WILL LET IN LOTS OF LIGHT WHICH IS A PART OF MINIMALISM AS LIGHT CREATES SPACE WHICH IS APPEALING TO THE HUMAN EYE. THE FOUR WINDOW PANELS ON EACH SIDE OF THE BUILDING SHOW REPETITION FROM REPEATING THE RECTANGULAR SHAPE. THESE ALSO HARMONISE WITH THE RECTANGULAR DOORS.

design development - FLOOR PLAN

HOW WILL EVERYTHING BE ARRANGED TO SUIT THE USERS NEEDS?

DURING SUMMER THE USERS OF THE PREVIOUS COMMON ROOM INFORMED ME IT GETS STUFFY AND HOT WHICH IS WHY I HAVE USED SEVERAL WINDOWS AND BIG DOORS TO LET IN A BREEZE DURING SUMMER.

I LEFT LARGE KITCHEN AREA SO MANY STUDENTS CAN ACCESS IT AT ONCE. LARGE CABINETS FOR STORING FOOD AND UTENSILS HAVE BEEN PLACED AGAINST WALLS TO SAVE SPACE AND AVOID CLUTTER. THE KITCHEN ISLAND ALSO PROVIDES EXTRA SEATING SPACE AS STUDENTS INFORMED ME THERE WAS NOT ENOUGH SEATING IN THE EXISTING COMMON ROOM KITCHEN. THE KITCHEN AREA HAS BEEN PLACED ON THE QUIETEST SIDE OF THE BUILDING AS IT WILL NOT AFFECT THE GIRLS. THE KITCHEN WILL BE TILED AND THEY CAN KEEP CLEAN EASIER.

I HAVE INCLUDED A LARGE DINING TABLE SO STUDENTS HAVE AN INDOOR AREA THEY CAN EAT AND SOCIALISE AT.

THE LAYOUT OF MY DESIGN CLEARLY SHOWS MINIMALISM. THE OPENPLAN LIVING AND INDOOR OUTDOOR FLOW CREATE SPACE WHICH IS A MAIN DESIGN PRINCIPLE SEEN IN TADAO ANDO'S WORK. MINIMAL FURNISHINGS HAVE BEEN USED AND THERE IS A LOT OF ROOM LEFT TO CATER FOR ALL THE STUDENTS. I HAVE DESIGNED THE LAYOUT SO THERE IS NO WASTED SPACE AND BIG ENOUGH AREAS FOR ALL STUDENTS. I HAVE CAREFULLY CONSIDERED WHERE I HAVE PLACED THE ROOMS DUE TO THINGS LIKE THE SUN, NOISE AND PRIVACY FOR GIRLS.

HIGH TOP WINDOWS LET IN LIGHT BUT PROVIDE SOME PRIVACY FOR THE STUDENTS. THE SUN WILL BE HITTING THE KITCHEN FOR A MAJORITY OF THE DAY.

THE GLASS SLIDING DOORS CREATE INDOOR OUTDOOR FLOW. THEY ARE ALSO OPPOSITE THE FRONT ENTRANCE GLASS DOORS MEANING YOU WILL BE ABLE TO SEE RIGHT THROUGH.

I PLACED THE SOCIAL AREA IN THE MIDDLE AS IT IS WHERE MOST STUDENTS WILL SOCIALISE AND THEY WILL WALK INTO IT FIRST FROM THE ENTRANCE. ALTHOUGH IT DOESN'T HAVE MUCH PRIVACY FROM THE GLASS DOORS THE STUDY AND KITCHEN PROTECT FROM THE SIDE PROVIDING SOME PRIVACY. IT WILL ALSO HAVE A VIEW OVER THE NETBALL COURTS.

STUDENTS TOLD ME THE BATHROOM AND TOILET WERE DARK AND DAMP AND NOT USED VERY OFTEN AS THEY WERE NOT CLEANED. THIS IS WHY I HAVE ONLY PROVIDED ONE TOILET WITH SEVERAL HIGH TOP WINDOWS FOR PRIVACY BUT LETTING IN LIGHT. THE GIRLS ALSO DISCUSSED THAT A SEPARATE BATHROOM WITH SINKS AND MIRRORS WOULD BE MORE USEFUL AND BENEFIT THEIR NEEDS. THE BATHROOM CAN BE ACCESSSED FROM THE LIVING AND STUDY SO THOSE IN THE LIVING AREA DO NOT DISTURB STUDENTS STUDYING IN THE STUDY BY WALKING THROUGH THE BATHROOM.

THE STUDY IS PLACED IN THE QUIETEST AREA DUE TO ITS SURROUNDINGS. IT CAN BE CLOSED OFF FROM THE LIVING AREA SO THE GIRLS CAN STUDY. THERE IS PLENTY OF SEATING AND TOP WINDOWS TO LET IN LIGHT.

THE LIVING AREA AND STUDY ARE CARETAKEN. I DECIDED THIS AS SEVERAL SENIOR STUDENTS TOLD ME THROUGHOUT WINTER THE FLOORS AND ROOMS ARE FREEZING IN THE CURRENT COMMON ROOM.

GLASS PANELS COVER THE FRONT OF THE BUILDING TO LET IN LIGHT CREATING SPACE. DUE TO THE GLASS I WAS UNABLE TO HAVE ANYTHING PRESSED RIGHT UP AGAINST THE GLASS. THIS ALSO ENABLES THE GIRLS TO HAVE A VIEW OF OUTSIDE WHILE THEY STUDY.

I PROVIDED SEATING AND A COFFEE TABLE SO THE GIRLS CAN RELAX AND SOCIALIZE WITH ONE ANOTHER. THE SEATING IN THE CURRENT COMMON ROOM IS UNCOMFORTABLE AND OLD SO SOFAS AND BEANBAGS WOULD BE PREFERABLE TO BENCHES AS STUDENTS COMPLAINED ABOUT PREVIOUS SEATING.

LEGEND:
 - - - SLIDING DOORS
 - - - TOP WINDOWS
 - - - FULL GLASS WINDOW PANELS
 - - - GLASS DOORS
 - - - SLIDING GLASS DOORS

design development - STRUCTURE

THE GLASS DOORS WILL FIT INSIDE THE TILT SLAB.

SMALL TOP WINDOWS

THE DOORWAYS LEADING EACH PART OF THE BUILDING TOGETHER WILL HAVE TO BE CUT INTO THE TILT SLAB.

DOORWAY LEADING TO BATHROOM

DOORWAY LEADING TO STUDY

THESE STEEL BEAMS RUN DOWN THE BUILDING. TILT SLABS FITS BETWEEN EACH BEAM. THESE BEAMS MAKE UP THE SKELETON OF THE BUILDING. THEY ARE STRONG AND CAN STAND IN WINDY CONDITIONS UNLIKE METAL BARS. THIS IS WHY STEEL BEAMS WERE MOST SUITABLE FOR MY DESIGN.

THE ROOF OF THE TALLEST MIDDLE SECTION OF MY DESIGN HAS A STEEL BEAM RUNNING DOWN THE ROOF IT CONNECTS WITH THE TWO END BEAMS. THIS IS TOO SUPPORT THE CEILING SO IT DOESN'T DROOP OR SAG. IT PROVIDES AN EXTRA STRENGTH AND LONGER DURABILITY FOR MY DESIGN. IT ALSO ADDS SMALL DETAIL TO THE INSIDE CEILING OF MY DESIGN.

THE STEEL BEAMS ARE WELDED AND BOLTED TOGETHER TO ENSURE DURABILITY AND STRENGTH. THESE BEAMS WILL HOLD THE TILT SLABS, WINDOWS AND DOORS. IT IS THE STRONGEST MATERIAL SUITABLE FOR MY DESIGN AS IT APPEARS MINIMALISTIC.

THE STEEL BEAMS ARE EMBEDDED INTO A CONCRETE FOUNDATION SO THEY ARE STABLE CREATING A SAFE BUILDING FOR ITS USERS.

THE TILT SLAB WILL HAVE HOLES CUT OUT FOR SOME SMALL WINDOWS ARE A DOOR.

THE ALUMINIUM FRAMES WHICH BORDER THE WINDOWS PROVIDES A STRONG HOLD FOR THE GLASS SECURING IT IN PLACE.

THESE SHEETS OF TILT SLAB WILL FIT IN BETWEEN THE STEEL BEAMS THAT RUN DOWN THE BUILDING, AND THE GLASS WINDOWS WILL POP INTO THEM.

WINDOWS IN TOILET AND IN THE STUDY.

Other Student work submitted has not been included in this exemplar

	Grade Boundary: High Achieved
4.	<p>For Achieved, the student needs to develop a spatial design through graphics practice.</p> <p>This involves:</p> <ul style="list-style-type: none">• exploring and refining design ideas that draw on spatial design knowledge• making design judgements on the positive and/or negative aspects of aesthetic and functional features of the design in response to the brief. <p>This student has developed a spatial design for a structure, a senior common room, using graphics practice.</p> <p>The sketches and models at the start of the process have been used to create divergent ideas, which then flow through to the refinement of the design ideas.</p> <p>There are valid design judgements given (1), which show the influence of research into sustainable design.</p> <p>The development of the layout, structure and materials (2) integrates the research into the ideas and this informs the progression of those ideas.</p> <p>A range of visual communication techniques has been used (see Explanatory Note 4) and these have been incorporated into the design process.</p> <p>Other work has also been submitted (not exemplified here).</p> <p>To reach Merit, the student could strengthen the flow of design ideas from the initial exploration stage to the final solution through the refinement process. The range of design judgements could also be strengthened to focus on the more relevant aspects or features of the design and further refine the form.</p>

LAYOUT

2



In this layout the ground floor is very crowded resulting in each area being very small. However, the first floor is only being used for 2 social areas.

I am going to experiment with placing other utilities on the 1st floor which will also make the ground floor less crowded.

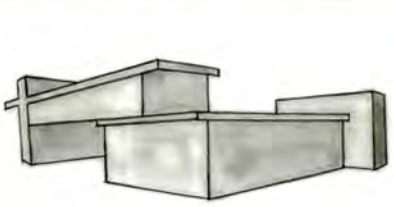


This is my chosen layout. I have placed the social area and kitchen in the space of the building where I have chosen to place the large glass french doors which will be the entrance to the Senior Common room. This is because this is going to collect both the morning and afternoon sun. Therefore it is the best place for an open area. I have placed the bathrooms on the south-west side of the building as this area catches the least amount of sun. The study is located on the first floor as it will be secluded and not as noisy as if it were placed on the ground floor. i.e. ideal for studying.

I don't think the 1st floor is the best place for a kitchen. This is because it will most likely be a utility people use the most so it is inconvenient for it to be upstairs.

The ground floor is definitely the best position for a social area. The bathrooms currently located in the south-east side of the building corrects most of the days sun. Sunlight is not required for a bathroom so this utility should be moved elsewhere and replaced with a more open area which can take advantage of the sun.

This layout is good. It may be more convenient for it to be upstairs, which may disturb the students studying on the ground level.



SITE PLAN

- In this sketch, the way the building is placed on the site is not ideal as the back of the building is where the morning and afternoon sun travels. However, the back of the building is also facing the main road which there will not be as much noise created by traffic.
- The way the building is placed on the site is not ideal either, it would not be very easily accessed by the students as it is blocking the current pathways leading to the site. However, it is in a position that would collect both the morning and afternoon sun.
- If the building were placed on the site like this, it would be very easily accessed by students using the facility however it is not very secluded from the school. It will also not collect the afternoon or morning sun.
- I chose this way of placing the Senior common room as it can be easily accessed by the users. The open area is under the direct sunlight allowing it to capture both the morning and afternoon sun. This private and secluded from the rest of the school and the existing trees located on the east side of the site will block any noise from traffic on the main road.



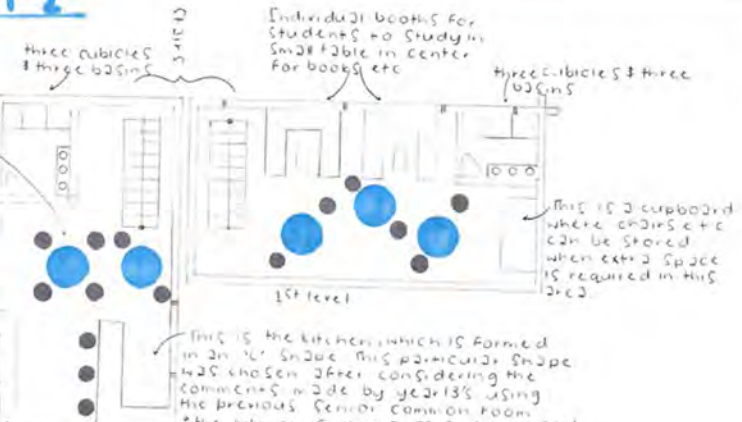
LAYOUT 2

Individual booths for students to study in small table in center for books etc.

Three cubicles & three basins

Three cubicles & three basins

Circular tables for students to eat lunch - observed in previous SCR students like circular tables easier to interact. This is the main entrance to the Senior common room. These doors have multiple ways of functioning they can either open close like a standard door or they can work as bi-fold doors that slide just to create a larger entrance and better indoor/outdoor flow.

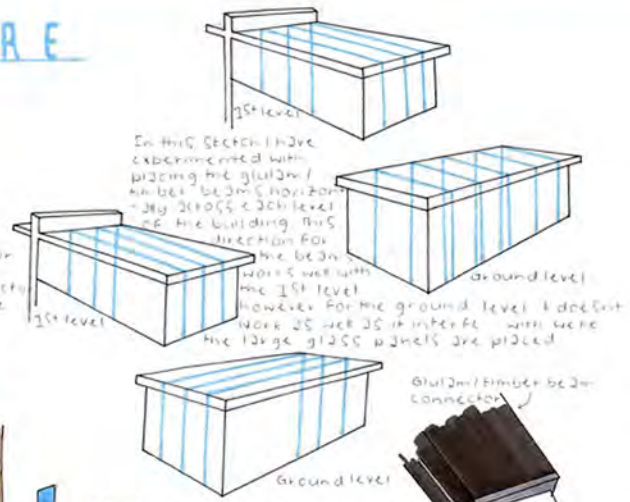
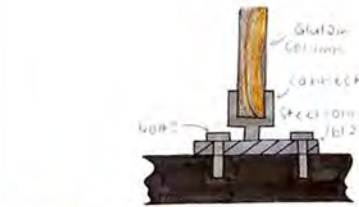


Large L shaped couch for students to sit on and socialize.

This is the kitchen, which is formed in an L shape. This particular shape was chosen after considering the comments made by year 13's using the previous Senior Common Room. The kitchen is very small and crowded we need a larger kitchen space because only 3 of us can fit in the kitchen at a time, which is not ideal. I made sure this kitchen had a lot of space as I knew this was one of the users' priorities. I placed 3 bar stools around the kitchen bench as an extra eating space or where students can easily interact with people using the kitchen.

2

STRUCTURE



In this section I have experimented with placing the glulam/ timber beams horizontally across each level of the building in the direction for the beams. However, for the ground level I decided not to use it as it interferes with where the large glass panels are placed.

I have kept the 1st level beams in the same direction however I have changed the ground level beam direction. This way the beams are not visible from the outside. The glulam/ timber beams are only visible from the interior of the building. I feel this adds an element of interest to the inside of the building.

DEVELOPMENT 2



After doing this concept I have realized that I prefer less larger glass panels than more smaller glass panels. This is because it gives the building a more simplistic appearance. The repetition of the three glass panels makes the building appear tall and slender.



Shear wall creates a visually strong structure

In this concept I experimented with Form again I decided to go back to the original 'L' shaped design. This is because I think it offers more privacy and seclusion for the users. The area under the 'folding' level is very multifunctional as it could be used for an outdoor area. I appreciate this idea of multiple functions as very sustainable.

1

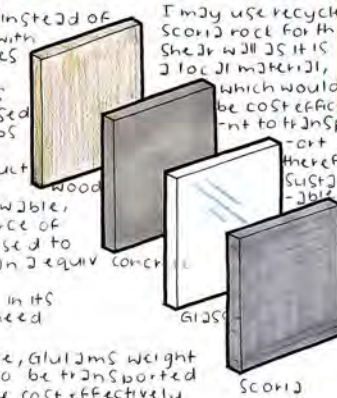
In this concept I rearranged some windows and placed them in areas where they would capture the most sunlight. I also enhanced the design's appearance by adding a shear wall. This adds interest to the design and also contributes to the idea of a more secluded environment for the users of the senior common room.



MATERIALS

- Glulam beams can be used instead of steel in a building structure, with the following distinct advantages

- * Glulam, like all timber possesses insulation qualities so when used within a building structure it helps eliminate the thermal bridge between structure and sub structure.
- * Glulam is a recognized renewable, environmentally friendly resource of material, due to the energy used to produce it is six times less than a equivalent strength steel beam.
- * Glulam is pleasing to the eye in its natural state and does not need cladding like steel.
- * Compared to steel or concrete, glulam's weight is far lower, thus enabling it to be transported and erected cheaper and more cost effectively.
- * Glulam is low maintenance as it does not rust or corrode. Glulam will not buckle or distort in response to temperature change.



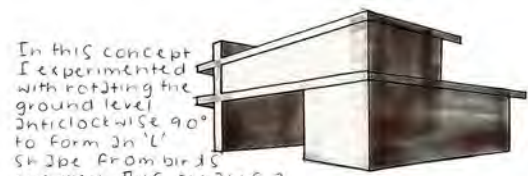
I may use recycled scoria rock for the shear wall as it is a local material, which would be cost effective to transport. Concrete is not very sustainable to produce however builds durable, long lasting structures that will not rust, rot or burn therefore making concrete a sustainable material in the long term. Homes built with concrete walls, foundations and floors are highly energy efficient because they take advantage of concrete's inherent thermal mass or ability to absorb and retain heat. Light coloured concrete absorbs less heat and reflect more solar radiation than dark materials reducing air conditioning demand in summer. Concrete can be produced in the quantities needed for each project, reducing waste.

I have decided to do a combination of wood (NZ timber) and concrete for the cladding of my building. This is because timber is very sustainable as it is produced in New Zealand.

These reasons above are why I have decided to use timber / glulam frames for my design's structure as it is the most sustainable option.

I will use double-glazed windows in my design as they reduce heat loss through windows by up to 50% minimizing the need for insulation devices.

DEVELOPMENT



In this concept I experimented with rotating the ground level anticlockwise 90° to form an 'L' shape from birds eye view. This creates a secluded environment for the users of the senior common room where potentially a deck could be placed.

This two level concept occupies less of the land which allows more space for greenery which is a very sustainable decision.

The repetition of the two large overhanging roofs creates a strong structure and also makes the building appear larger.

I think if this concept were to have more windows it would enhance the building's appearance and increase its overall sustainability level as windows are very cost efficient. This is because they capture a lot of light and heat.

In this concept I experimented with the shape again and formed a 'V' shape from birds eye view. This gives a more open-plan layout. The use of straight, strong lines and geometric shapes makes the building aesthetically pleasing. The vertical and horizontal lines contrast with each other to form a very sleek and slender appearance.

In this concept I have developed the placement of windows, I have used multiple panels of glass windows. So in the next concept I will experiment with a more simplistic style of windows.

Other student work submitted has not been included in this exemplar

	Grade Boundary: Low Achieved
5.	<p>For Achieved, the student needs to develop a spatial design through graphics practice.</p> <p>This involves:</p> <ul style="list-style-type: none">• exploring and refining design ideas that draw on spatial design knowledge• making design judgements on the positive and/or negative aspects of aesthetic and functional features of the design in response to the brief. <p>This student has developed a spatial design for a structure using graphics practice. The student has carried out some research (1) that has been used or referred to during the development of the design ideas.</p> <p>There is some relevant technical knowledge evident (2) that has been used in the development of the design ideas.</p> <p>Other work has also been submitted (not exemplified here).</p> <p>For a more secure Achieved, the student could strengthen the use of the technical knowledge and visual communication of the ideas, i.e. the materials section (3).</p> <p>More refinement of the design ideas for the common room (4) would be required for a secure Achieved, i.e. there should be more balance between the convergent aspect of the design ideas and the divergent (explorative phase) aspect of the design process.</p>

FORM DEVELOPEMENT



The kitchen seems to be too small for all of year 13 students. There is only 3 maximum people space to get in.

It's really crowded at lunch time people can't get through because there is not much of the space where seniors can all sit. Some

There is also deck along the building and at the end of the deck there is grass. Senior students sit on the benches that are on the deck and some of the seniors sit on the deck at lunch time or any free period they have.



The first floor and second floor is built hollow in the middle so seniors can look down and up each other, so that they could communicate.



There is long windows along to the deck, and it has curtains inside. Most of the time the curtains are closed. This could tell us that the sunlights are too strong or they don't enjoy the sunlights or maybe it's not the place to have windows because sunlights don't come in that much.

The other living area in first floor where the long windows are, don't have any desks that seniors can study on seniors might have to sit on the floor to do their work. There is stack of chairs on the corner of the room but there is only few of them.

There should be more benches so that senior students don't have to sit down on the floor when they don't have space to sit. Also the senior students don't use the blank space except for sitting down so instead of using the spare blank there should be more benches so that seniors can stay more comfortable.



of the seniors had to sit on the ground because there is no sits for them. This senior common room is built in 2 stories, the first floor has kitchen, toilet, 2 living area and second floor has few benches to sit down. There is small 2 rooms on second floor it's used for storage.

on the first floor one of the living area has some benches to sit down and there is one little desk for about two people to use. Behind the benches there is windows and it gives nice and warm sunlight at the noon as you can see it on the photograph.

There should be more desks so that senior students can study in senior common room not library or any other place.



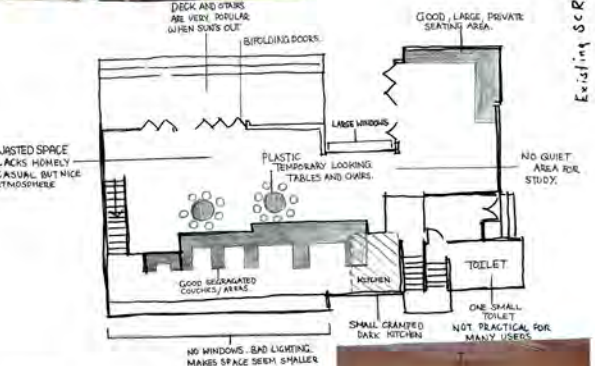
Senior Common Room Analysis



POPULAR DECK SPACE

Existing SCR Scale 1:100

Other student work submitted has not been included in this exemplar



- EXISTING SENIOR COMMON ROOM
- POSITIVES
- TWO-STORY - MULTI SPACES
 - NORTH FACING OUTDOOR AREA
 - LARGE EMPTY SPACE
 - LOCATION - CLOSE TO CLASSES
 - BIFOLDING DOORS
 - AVAILABILITY
- NEGATIVES
- LACKS NATURAL LIGHT
 - NO FLOW TO DESIGN
 - CRAMMED KITCHEN
 - BAD INDOOR/OUTDOOR FLOW
 - NO OPEN LIVING
 - NO SEGREGATED QUIET AREA



SMALL CRAMMED KITCHEN "ONLY FITS TWO PEOPLE IN THE KITCHEN AT ONCE" - SAYS A YEAR 13, FREQUENT USER OF THE CURRENT COMMON ROOM.

Handwritten notes on the sketches:

- THE TWO BASIC SHAPES CREATE A WIDE, LAYERED SHAPE. TO MAKE IT REFLECTS MY INSPIRING MOVEMENT - MINIMALISM
- I WILL NEED TO REFINE THE BUILDING. I CAN DO THIS BY MAKING THE BUILDING LOOK THINNER OR MORE BLENDER BY ADDING MORE HORIZONTAL LINES THAT DRAW THE EYES HORIZONTALLY CREATING MOVEMENT.
- I DON'T THINK THAT THIS DESIGN WILL BE STABLE AS THE SECOND STOREY IS BARELY ATTACHED TO THE SECOND STOREY AND SO WEIGHT FORCE WILL CAUSE IT TO DROP UNLESS STEEL BEAMS HOLD IT UP BUT I DON'T THINK THAT WOULD FIT INTO MY MINIMALISTIC INSPIRED DESIGN.
- OVERHANGING SECOND STOREY CREATES A SHELTERED OUTDOOR AREA WHICH WOULD BE USEFUL WHEN ITS RAINING AND INDOORS IS CONGESTED.
- THIS PART IS GOOD OF THE DEVELOPING IDEA BECAUSE OF THE EMPTY SPACE ON TOP OF THE FIRST STOREY ROOF WHICH COULD BE USED AS AN EXTENSION / OUTDOOR DECK AREA OFF THE SECOND STOREY.
- FROM THE ORIGINAL CONCEPT IDEA IT WAS NOT DIFFICULT TO PROGRESS TO THIS, A MORE CONDENSED AND REFINED VERSION OF THE CONCEPT. THE DEVELOPMENT SHOWS LAYERS AND DENSITY WITH THE SECOND STOREY BUT ALSO THE SLENDERNESS OF THE PORTULING UNDER HANGING BOTTOM LEVEL
- HAVING LOTS OF BASIC GLASS WINDOWS CREATES A PATTERN AND ALLOWS LIGHT IN. A DECK ENHANCES THE USE OF LEVELS/LAYERS OVER LAPPING.

BUILDING SITE

RESEARCH ON SITE AND SURROUNDINGS

Annotations on the site plan:

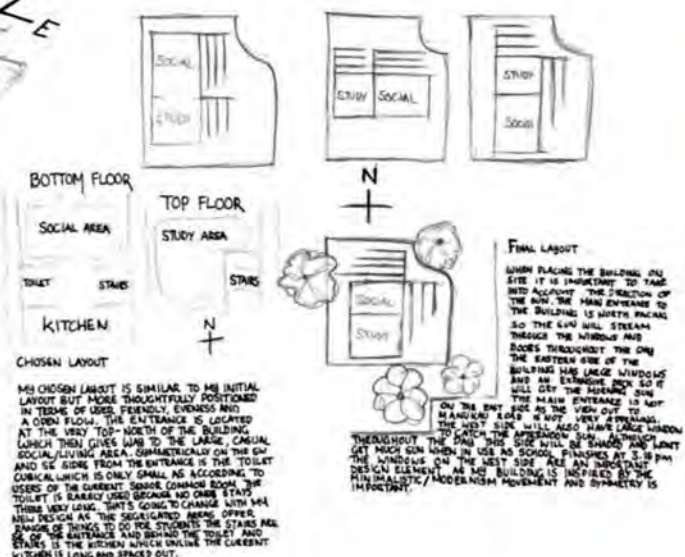
- MAIN ROAD THIS SIDE
- THIS SIDE OF THE BUILDING WILL BE FACING THE SUN THROUGHOUT THE DAY.
- The main deck off my design will be facing north so it has the sun on it throughout the whole day. The large windows will also be on this side of the design of the new common room to create a warm/light environment
- Tree will provide shelter
- Netball courts and busy main road (Manukau road) may effect the level of noise.
- South side of building + trees create shadows and a dark / dampness.
- AVAILABLE BUILDING SPACE IS SURROUNDED BY TREES TO INHIBIT SECLUDED / SOCIAL AREA
- OUT OF THE WAY, FAR AWAY FROM THE ART AND TECHNOLOGY BLOCKS, BUT CLOSE TO THE 3 STOREY BLOCK.
- EXISTING 3 STOREY BLOCK
- PROPOSED BUILDING
- AVAILABLE BUILDING SPACE
- 22.2m
- LARGE GROUND SITE
- HIGH RISE BUILDING WILL BE ABLE TO SEE OVER TREES TO NEW BUILDING

CRITERIA FOR INSIDE MY DESIGN
 ACCORDING TO CURRENT/FUTURE USERS OF THE
 COMMON ROOM MY DESIGN SHOULD INCLUDE:
 - LARGE KITCHEN
 - WALL-TOILET
 - STUDY AREA
 - SOCIAL AREA
 - STUDY AREA THAT RESEMBLES LIBRARY
 - LIGHT-NATURAL
 - I HAVE TRIED TO INCORPORATE AS MANY OF
 THESE FEATURES INTO MY DESIGN AS POSSIBLE
 TO CONSIDER THE NEEDS OF THE USERS
 TO ACCOMMODATE ALL FACILITIES
 REQUIRED BY THEM AS STUDENTS.



MY INITIAL INTERIOR FLOOR FOR MY BUILDING CONSISTS OF THE TWO LEVELS (TOP FLOOR AND BOTTOM FLOOR). THE BOTTOM LEVEL WILL BE VERY SOCIAL AS IT IS VERY GREEN WITH A GOOD INDOOR TO OUTDOOR LIVING FLOW WHICH IS BENEFICIAL FOR WHEN THE WEATHER IS FINE. AS THERE IS MORE FLOOR SPACE, THE KITCHEN/STAIRS/TOILET ARE LOCATED IN THE SOUTHERN END OF THE BUILDING TO TUCK THEM OUT OF THE WAY FROM THE SOCIAL/MEETING PLACE. THE STAIRS LEAD UP TO THE SECOND FLOOR WHICH IS THE 'QUIET AREA' AND HAS A DOOR TO SHUT OUT THE NOISE FROM SOMETIMES. LISTENS THERE WILL BE TABLES AND CHAIRS FOR STUDENTS/USERS TO DO THEIR WORK. COUCHES WILL ALSO BE LOCATED FOR THOSE WHO WANT TO READ. MY DESIGN IS MULTIPURPOSEFUL, USER SPECIFIC AND APPROPRIATELY POSITIONED IN RELATION TO THE LOCATION OF THE SITE.

HOW WILL IT BE POSITIONED ON SITE?



MATERIALS

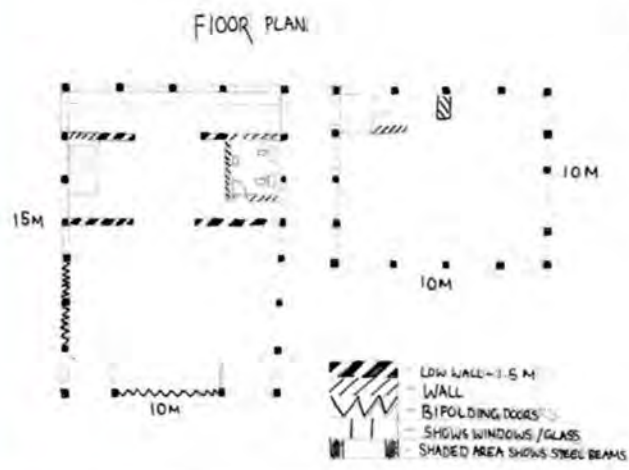
STEEL FRAMING IS A COMMON MATERIAL USED IN MINIMALISTIC BUILDINGS. IT CREATES A SILVER SKELETON TO WHICH OTHER MATERIALS CAN FIT INTO. ON TOP OF IT IS ALSO RELATIVELY LOW MAINTENANCE AND TO ERECT ONLY INVOLVES BOLTING TOGETHER STEEL FRAMES. THE FRAMING IS ALSO THE MAIN STRUCTURE THAT HOLDS UP THE ROOF AND HOLDS THE WALLS TOGETHER. THE WALLS ARE ALL GOING TO BE MADE OF GLASS TO ENHANCE THE VISUAL SURROUNDINGS/ENVIRONMENT. IT MAKES SPACES SEEM LARGER THAN THEY REALLY ARE. IT ALSO ALLOWS FOR A LIGHT SPACE WHERE SUN CAN FLOOD IN FROM ANY ANGLE AT ANY TIME OF THE DAY. GLASS IS QUITE HIGH MAINTENANCE AS IT GETS DIRTY EASILY AND REQUIRES FREQUENT CLEANING BUT IT'S POSITIVES WEIGH OUT ITS NEGATIVES. THE FLOORS OF BOTH THE BOTTOM AND TOP FLOOR ARE MADE OF TIMBER WHICH IS LOW MAINTENANCE AND DURABLE AND WILL FIT IN VISUALLY TO THE RATHER SIMPLE COLOUR PALETTE. I HAVE LEFT ALL MATERIALS IN THEIR NATURAL STATE AS MINIMALISM IS ABOUT THE REFINED BEAUTY OF DESIGN.



3

FINAL LAYOUT - FUNCTION OF DESIGN FEATURES.

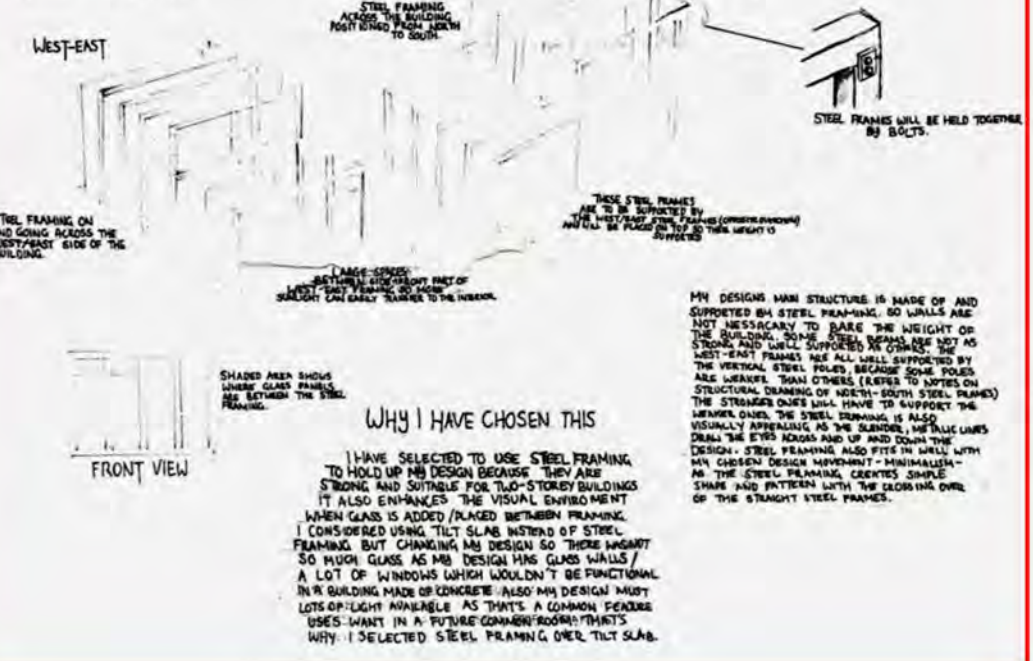
2



I DESIGNED MY LAYOUT FOR THE INTERIOR OF THE NEW SENIOR COMMON ROOM TO ACCOMMODATE THE NEEDS OF ALL USERS WITH SEPARATE DESIGNATED SOCIAL AND STUDY AREAS. YOU WILL NOTICE THE GROUND FLOOR CONTAINS THE KITCHEN, BATHROOM AND SOCIAL AREA AS SHOWN ON MY SITE POSITION PAGE. THERE ARE NOT WALLS SEPARATING EACH DIVISION (NOT INCLUDING THE TOILET WHICH HAS TO HAVE WALLS FOR PRIVACY REASONS) I HOWEVER USED LOW WALLS TO ADD VISUAL VARIETY TO THE BOTTOM FLOOR. I WANTED TO CLOSE OFF THE KITCHEN AREA AT THE TIME VERY BACK BUT THOUGHT BETTER OF IT AS I WOULD BE CUTTING OFF NATURAL LIGHT FROM REACHING THE KITCHEN. THIS IS WHY I PUT LOW WALLS IN. SO SUNLIGHT CAN STILL STREAM INTO THE KITCHEN. I HAVE ALSO PUT ONE AT THE BOTTOM OF THE STAIRS TO HELP MINORLY CUT DOWN THE NOISE TRAVELING UPSTAIRS TO THE STUDY AREA WHEN THE DOOR IS OPEN. MY MAIN REASON FOR USING LOW WALLS WAS TO CREATE AREAS/OPTIONS FOR VISUAL VARIETY WITHOUT CUTTING AREAS OFF COMPLETELY.

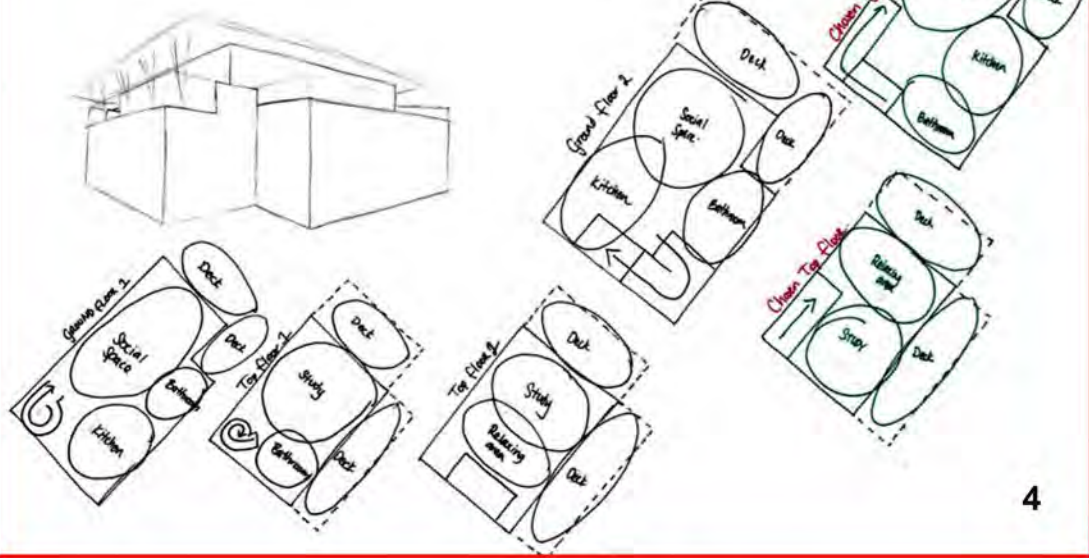
Student 5 Page 2: Low Achieved
 NZQA Intended for teacher use only

STRUCTURE DEVELOPEMENT



	Grade Boundary: High Not Achieved
6.	<p>For Achieved, the student needs to develop a spatial design through graphics practice.</p> <p>This involves:</p> <ul style="list-style-type: none">• exploring and refining design ideas that draw on spatial design knowledge• making design judgements on the positive and/or negative aspects of aesthetic and functional features of the design in response to the brief. <p>This student has started to develop a spatial design for a structure, a senior common room, using graphics practice.</p> <p>The development of the design ideas has been expressed visually. At times the spatial visual communication techniques have been used well to communicate the development of the ideas, e.g. the structure investigation (1).</p> <p>Other work has also been submitted (not exemplified).</p> <p>To reach Achieved, the student could apply the visual communication techniques more consistently across the whole submission.</p> <p>The design judgements (2) should be strengthened to better cover the positive and/or negative aspects of the aesthetic and functional features of the design. An example (3) of the depth of design judgement required should be more consistently evident across the submission.</p> <p>The links between the space and its scale (4) should be strengthened, to show how the student has investigated the size and arrived at its final proportions.</p>

SPACE INVESTIGATION

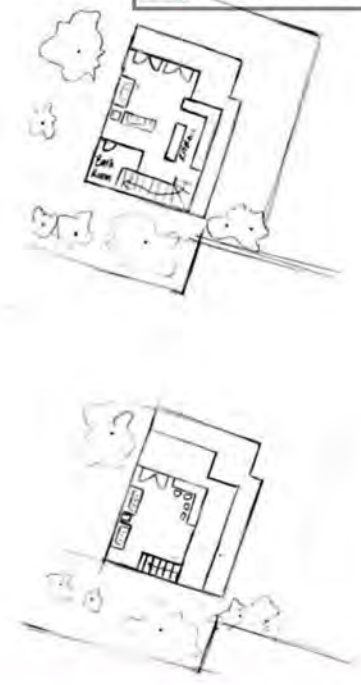


The bathroom has been put under the stairs because in the previous construction had not been occupied often.

FLOOR PLAN INVESTIGATION

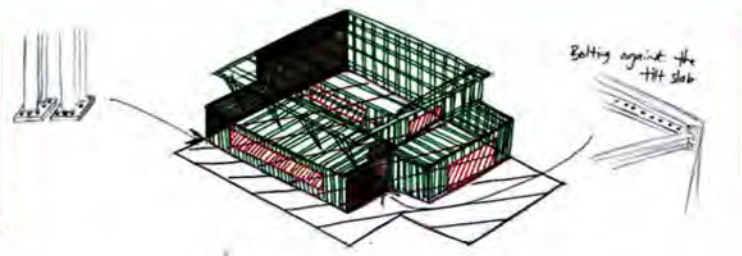
The kitchen has been made larger than the previous construction because of the lack of space & complaints about the area.

The study area has been placed upstairs to give the occupants quiet and an atmosphere to concentrate in.



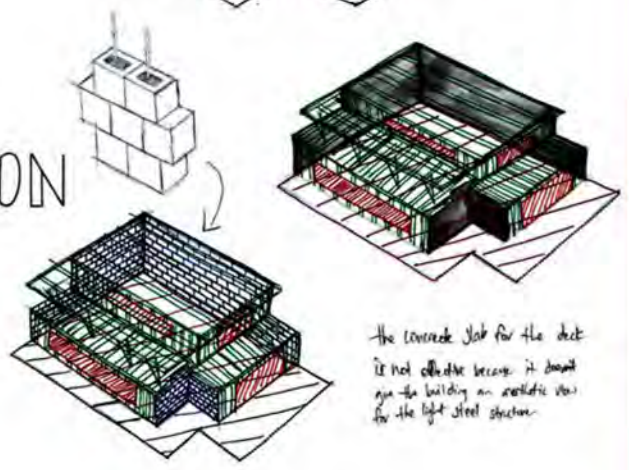
Other student work submitted has not been included in this exemplar

I have chosen the top structure for the senior common room because aluminium is good having a structure look light. Steel creates that effect.



STRUCTURE INVESTIGATION

I have not chosen this structure because the brick work does not flow with the modern design effect & therefore is not effective.



1

The stairs create an open view of the school & open space of the building.



The building is facing north to give more sunlight & warmth for the students using the building.

The pedestrian access is very visible & easy to access.

2

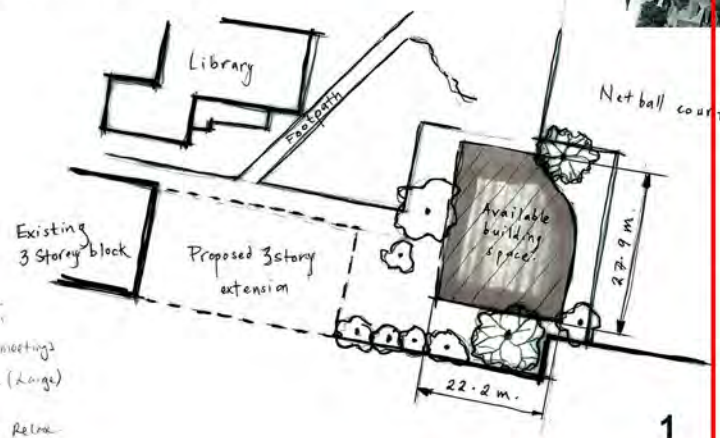
This architectural design enhances the school because it links with the new building & movement.

The south cold wind has been access through the deck because there is no access.

2

The form is very light & strong. This creates the modernist style & slope for the building.

SITE RESEARCH



- ✓ Library
- ✓ Large kitchen
- ✓ Big space for meetings
- ✓ Hangout Area (Large)
- ✓ Study space
- ✓ Outdoor Deck - Relax
- ✓ Eating Area

Footprint of 300m² site available for the Year 3 Senior Learning room

These will be the main deck for the social part of the building and the main deck will still have space that can be used for other things like a rest or recreation area.

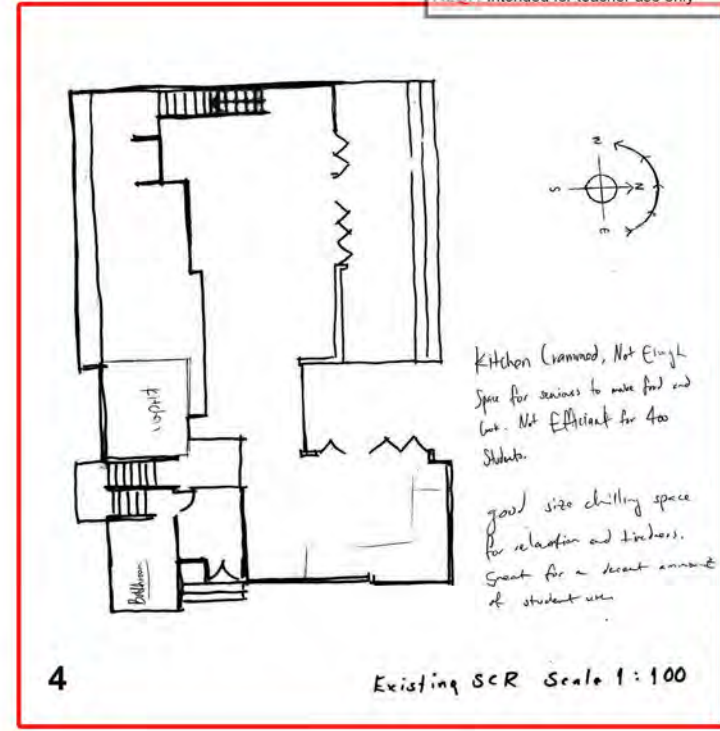
This calculation is just ideal because the sun does not hit the areas that are going to be most occupied by the students. The sun does hit the areas of the building that are not.

- Kitchen (cramped)
- Living (stress and tension)
- Big space for meetings
- Hang-out
- Study Space needed
- Outdoor Space needed
- Eating Space

Large With space on Ground floor Good for Meetings and Learning for the seniors of the school

Large Deck for Relaxation area is a good idea with sun facing North.

Upstairs However, not enough windows allowing fresh air through the common room which limits use of upstairs

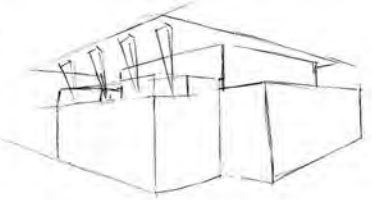


Kitchen (cramped, Not Enough Space for seniors to make food and eat. Not Efficient for 400 Students.

good size chilling space for relaxation and teachers. Great for a decent amount of student use.

DESIGN DEVELOPMENT

I have considered the roof & come up with a flat roof with pillars to create movement.

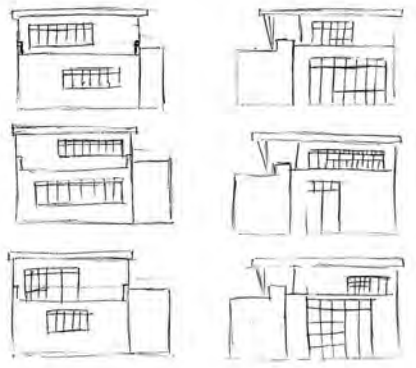


The pillars have created movement for the building.



These windows have also given the students more view of the school.

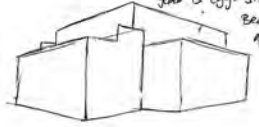
I have considered the windows and created more view movement.



DESIGN DEVELOPMENT

I have considered the back steps for the Building and have changed it to create a more stable approach.

I need to think about giving the building some outside area for the year 3 & 4 students because it's quite popular.



This has given them more options of how they can rest.

I have considered the deck & chosen one that has given the building more formal view.

