EDEXCEL

GCE Design and Technology:
Product Design (A2)
(Graphics Products)

EXEMPLAR MATERIAL 2

Title: 6th Form Block Design.

UNIT: 6GR04



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BLOCK DESIGN FORM

designated solely for the 6th form is quite restricted school. As it is shown, the area within the school This is where the 6th form block is located in the and this will be a big limitation when designing.

USER GROUP

The group of people that the design will have to be their needs and preferences as well as the schools. done around will be year 12 and 13 students (aged 16-18) of all backgrounds and stereotypes. The design I come up with will have to cater to all of

BACKGROUND INFORMATION

The Sixth form Block at Branston Community College is extremely old; since it was built it has kept the same structural shape. A few times, it has had a lick of paint on the walls to brighten it up, and recently provided. However, a revamp to this extent has never happened since it was built, so redesigning the building will be key to attracting more students to attend the 6th form rather than go to a more modern computers were added to one of the side rooms to modernise the quality of educating the centre up to date place with better facilities such as Lincoln College.

DESIGN BRIEF

currently an existing block located in the school, and this is where the new one will be situated, however to the outcome of the final design. As part of the project, you must also design and make a presentation apart from the size you have no limitations in what you can do with the designs for both the interior, and exterior of the building. Within this project, there must be an element of sustainability. The possibility of board to use with the model you will make as a proposal for your idea to the board of school governors renewable energy sources being merged into the design must be open as a option and this will be key Design and make an accurate model of a sixth form block for Branston Community College. There is and school council. It will need to sell the idea as the best one, and present the ideas in a clear and a complete revamp is wanted by the client, the current Head of Sixth, Ms Robins. This means that,

This is where the Head and Vice Head of 6th Form are based

This room tas all the computers in available for the 6th form to use, and some desis for any other work they may wish to do.

Computer Room

Office

simple way.

the area I will create, for example and in the design itself I will have abide by the needs and wants for College. Although there is going to be a total revamp of the block. My client is Ms Robins, who is currently the head of the Sixth Form at Branston Community few limitations, I will have to what it needs to include.

> This is a great available to students to releas in in their free time

> > with their friends during break time, lunch time and free periods. It consists of comfortable seating and

This is the area where most of the 6th formers sit.

Main Seating Area





GHIS TO lets

Boys Tollets

for general studies is kept as It has no other bese in

This is where all the info General Studies Room

NTRODUCTIO RAM BLOCK DESIGN - I 6TH FC

answers to in order to create an accurate, usable and good design. I have thought about it from three perspectives: the Head of Sixth Form, The Tutors of the In order to find out what I need to research, I need to analyse the problem that I have been presented with and ask all the questions that I need to find out the Sixth Form and most importantly the Students.

Head of Sixth Form

What are the main functions of the sixth form block?

I will need to find this out to start my design off at all, as I need to know the main things I need to include and what is really important.

How many students will it need to cater for?

This is important for things like seating as it needs to have the capacity to hold the maximum amount of students so that it suits its need.

What are the requirements for your office?

This is important, as the head of sixth form will be spending nearly all her time there ad will need it to fit exactly to what she needs.

If any, how much storage space will be needed?

It is important to know how much will need to be stored, so that I can fit it into the design so that the final design doesn't come out with too much storage space and not enough space for everything else or not enough storage space so that things that need to be stored couldn't be. How much space do the teachers need and will the teachers need their own facilities such as a kitchen or toilets?

If any, as the main use of the sixth form block is for the students, the other staff have the staff room so I need to know whether they need their own space in the sixth form block with facilities to use there as well.

What does the balance for students need to be between work and relaxing? It is important to look at this form the head of sixth forms point of view as well as the students as obviously she is the one who needs to say how much they need to work, and I need to know to get the balance right between the areas I will create for relaxing and working.

What facilities will there need to be to present things to the entire year group during tutorial time? I need to know this so that I can create an area, if needed, that suits this purpose and there can be a presentation to the whole of sixth form if need be.

Tutors/Teachers

Do you need a separate area?

It is important to know this as if they do it needs to be a major factor in my design.

What are your uses for the sixth form block?

If they do need an area, I need to find out exactly what needs to go into it by finding out what they do in it.

When do you use the sixth form block?

If there are only specific times like during lesson time or at lunch time that they use the sixth form block, I need to know so that they don't interfere with any of the activities student are doing.

What do you think is the most important aspect for the students?

It is important to get everyone's opinion on the use of the sixth form block for the students, as it will give a more comprehensive overview of what is needed and why.



Students

What kind of seating do they need?

as there is no point having seats they don't need and not having seats they don't need and not having seats they do need.

How many computers would be necessary?

This is important to know as the sixth form block needs to have the working capacity for all the students, so I need to know how many use the computers at any one time to work out how big the computer are needs to be. How many lockers, if any, would be necessary?

To know how many people would need lockers.

What colours would be most suitable and would they most enjoy?

This is important to find out so that the design I create can be enjoyed by them and that they will like it.

What does the balance for students need to be between work and relaxing?

It is important to know how the students feel about this issue as well as the teachers as they will be the primary users of the block and it needs to be designed around what they mainly use it for, despite what the teachers want them to use it for, but never the less needs to put them in a working frame of mind.

What facilities need to be in the kitchen, if any?

To find out anything they think they may need from the kitchen, or if they even need a kitchen.

Does the work area need to be separate from the relax area?

I need to find out whether it can be one integrated area or whether they would find it easier to work in a separate environment to where people are working. How many toilets do there need to be?

What materials would be most suitable and would they enjoy the most?

This is important to find out so that the design I create can be enjoyed by them and that they will like it.

Does it need to remain a single floor sixth form block, or are they open to more?

RM BLOCK DESIGN - ANALYSIS 6TH F

Whilst planning my research for this project, I decided the best idea would be to conduct a questionnaire of 6th formers and carry out the rest of my research from there, as this seemed to be the best way to get what the target market wanted. By doing this, I could also find out what I needed to research. A questionnaire is also a very easy method of

research for me as my user group is all my age so I have a lot of access to them.

Questionnaire

1. What colours do you think would look best in the new 6th Pink form block (Pick two)

Green

White Black Blue

Cream Silver Gold

2. What is the most important aspect of the 6th form block in

Purple

Grey

Red

Recreational Facilities Outdoor area Study Area your eyes? Computer Space Teachers Office Seating Area Kitchen

Plain and Simple 3. Should the colour scheme be: Bright and Colourful

Toilets

5. What sized group do you usually sit in in the 6th form block? 4. Which area in the 6th form block would you use the most? Seating Area **Toilets** Computing Area Study Area Kitchen

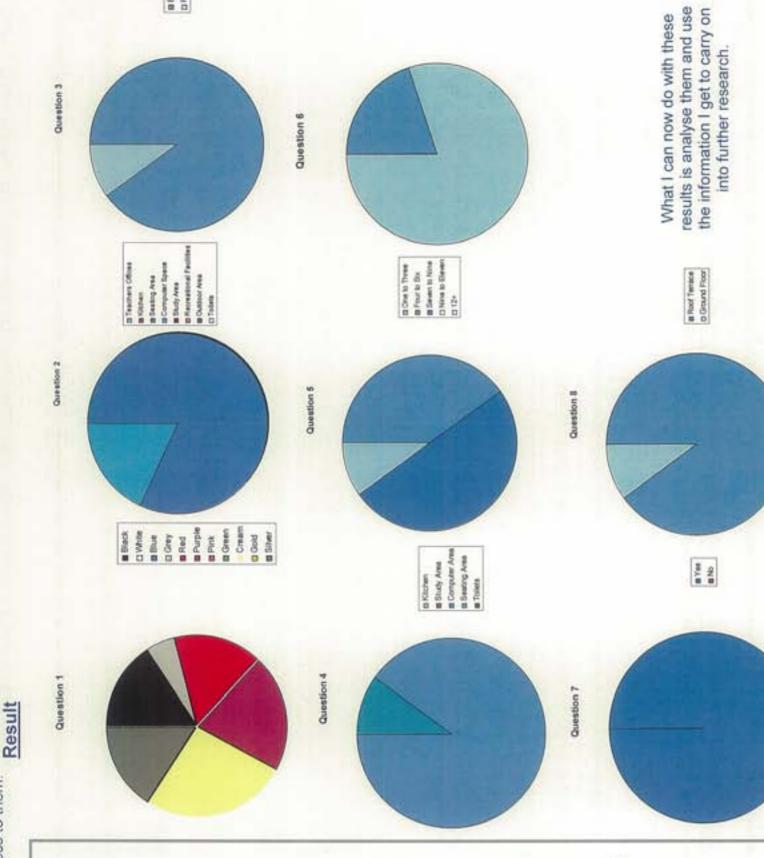
9-11 4-6 How many toilets would be suitable for the amount of people using them lin the 6th form bock? (separate cubicles) 4 5 4 6. - NO

7. Is an outdoor area an important part of the 6th form block? 2 8. If yes, does this outdoor area have to be situated in a ground floor area, or could something like a roof terrace be a possibility?

Ground Floor

6TH FC

Roof Terrace



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ESEARCH OCK DESIGN -

CASE STUDY - EXSITING PRODUCTS







This is a brand new 6th form block designed by a collaboration of students and built in London. I think it would be useful to look at the project as a whole to see what aspects of the design are most important, because their project is exactly the same as mine, how ever I must take into account it is in a different setting, a central London 6th form block may be different to a rural Lincolnshire setting.

Because it has been designed by students, the 6th form block has a very modern feel about it, incorporating bright colours in a stylish yet practical way, and using detail to make it feel very contemporary. For instance, the stairway uses different shapes, materials and colours to convey a modern look. Glass is also a very important feature in this design in making it look and feel modern. It allows a lot of light in so the space feels big, open and airy. I also think the use of colour is interesting, as the main rooms seem to be generally pale, simple colours, all different bright colours are used together to add more interest to an otherwise boring locker room.

Because I think I am going to make my staircase a feature, I am particularly interested in this one. Clearly it is a feature in this 6th form block as well, with an interesting shape and lighting features above it all as one impressive feature. It makes the entrance to the 6th form block look very grand. The lights are also a major feature, being a very big, unique shape over the stairs. The large ceiling allows for this design, and maybe a high ceiling is something I should think about.

Something else I have noticed about the 6th form block is that it is very much split off into separate areas, rather than one big open space as my existing one is now. Obviously I need to take into account the students and clients wants when thinking about this option but, even though closed off separate areas work here I think maybe a more open space would work better.

Overall I really like the design of this sixth form centre, and I am looking to produce a design which is a long the same lines as this. It still has a feel very much for being a place for education, and is very official, but at the same time it is a well designed, well thought out, modern building with contemporary and stylish interior design to suit its purpose. My client, the head of the 6th form at the school that I am redesigning, very much likes this design, however in my design I have to add furniture and more detail to it.









RM BLOCK DESIGN - RESEARC

Computer Space

In the questionnaire, the computer space was the only other area seen as important to the students however not quite as important as a seating area. The existing computer area had around 15-20 computers in it, yet this seemed to be the right amount as there were never any queues.

The main purpose of the area is to study, so the area has to be calm, relaxing and quiet with all the facilities needed readily available, such as computers, paper, desks, stationary etc.

Therefore I need to look at what types of these things there are available to best fit the need and space, and I need to figure out where is best to have this area, or if I should break it up depending on what people need it for.

Toilets

The toilets are a necessity in the 6th form block. After talking to 6th formers, they would much prefer to have toilets of their own which they can look after properly rather than share with the rest of the school. They need to be practical, and easy to keep clean. However since most school toilets tend to be dull I think it would be a good idea to add a bit of colour.

Recreational facilities

I need to find out what kind of things the 6th formers want as extras, such as the vending machines, and games such as the pool table o football table.

table o rootball table.

I realise that lockers are a must have as they were widely used in the existing 6th form block, and I need to find a suitable area for these to go, or an area of their own to go in. The size of the locker is also important here.



classroom to be based in, however the head of 6th form does not, so her office needs to take up some of the space in the

Most other teachers in the school have a

Teachers Offices

during afternoon registration, where all the

6th form tutors gather together, there is no space for them to convene, so this would

6th form block. I have also noticed that

Study Area

with a desk, chair, and plenty of storage to

keep information organised

everything is more organised. Obviously the office would need to be well equipped

be a nice idea for them to have an area so

Although not mentioned anywhere in the questionnaire as important. I have o take into account that as part of the 6th form block, the study area is an important area, even if not seen that way in a students eyes. The study area ties in with the computer space, so I need to look at how I could interlock these two ideas and create the best possible space. The study area needs to be a quiet, out of the way place with no distractions but also needs to be comfortable, as this is the most efficient way for a student to study.

Kitchen

The kitchen is an important area of the 6th form block, as it is used by a lot of the 6th formers to make their lunch. Therefore it needs some basic equipment such as a kettle, sink, fridge and microwave. There needs to be surface space for people to prepare food on such as pot noodles or microwavable ready meals. The kitchen could also be home to different vending machines to save cluttering up a different area of the 6th form block. From my experience, these machines are well used, and would be an important recreational feature in the area.

What goes in a 6th form block?

Seating Area

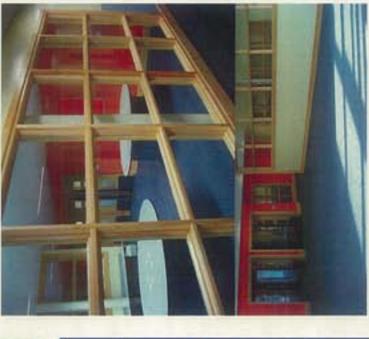
In the questionnaire, the seating area came out to be the most important part of the 6th form block, as well as the most used. These two ideas tie in together. Therefore the design of the seating are is important to get right.

The main purpose of the area is to sit and relax with friends, so their needs to be comfy chairs or sofa's available in reasonably sized groups. From the questionnaire I got that the most common group size was around 4-9 people, but I think a variety would be more fitting as there are lots of different sized friendship groups around. I also have found that tables or some sort of surface come very useful, so this is a key feature I need to look at. In the existing block, tables were also used as foot rests, so I think I need to look at somehow incorporating a footrest into a table so the tables stay clean.



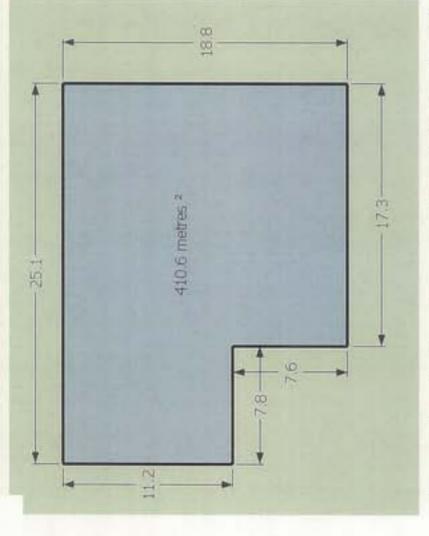
Outdoor Area

The out door area of the 6th form block is essential as every single student who I asked on the questionnaire said it was important. There are a lot of options as to how to design this, as it needs to involve a lot of different things. The main area is comfortable, practical seating. In the questionnaire, a lot of the answers said a roof terrace would be a good idea, where the 6th form could get away from the rest of the school. This could tie in with a sustainability idea, where the roof terrace or outdoor area could be home to a wind turbine or solar panel etc.



RESEARC 6TH F

ERGONOMICS AND ANTRHOPOMETRICS



The area above is the only are currently available for all the 6th form facilities to be in, in the school grounds. As can be seen, the total the area covers 410.6 metres squared and is currently split as the building being in the main larger square on one level only, and the outdoor area for the 6th form being in the smaller rectangle sticking out to the right. As I am doing a complete remodel, these whole areas is made available for both the building and out door use, although I must take into account the surroundings as to how the space is used.

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Surrounding the area is a car park to the rear, an IT centre to the right. A large, well used science and humanities block and to the front a large paved area for compulsory school students to use during break and lunch time. Since a roof garden/seating area seemed to be a well liked idea in the questionnaire, most of this space could be used as indoor space. There is also an option of building upwards instead of outwards and creating a second area. This way I could split the areas into more suitable sections, maybe a floor for teachers and students who want to work and a floor for those who want to relax, with recreation facilities in.

Sitting up working position

38

I have measured the dimensions of an average sized person sitting up and working at a desk so that when I design or choose the seating and working tables I can make sure they are the right size for working at comfortably with out straining the body. The seating position for working is very important, especially when sat at a computer because the seating position has to be correct so as not to strain any part of the body. As well as this the angle of the eyes to the computer screen is important so everything needs to be at the right height

All of the measurements are in cm.



Sitting in a relaxed position

The relaxed seating position, in the case of many 6th formers is a slouched position. This is not very good for their back or their posture. Therefore I have decided that rather than have teachers tell them, I would make a chair that prevents slouching yet is still very comfortable and still makes you feel like you are sitting in a relaxed way (see body position of image to the left). Once again I took the different dimensions of an averaged sized person to make the perfect chair for relaxing in in between work times, after all this is a key time for a sixth former between lessons when they have been working hard and need some down time.

09

All of the measurements are in cm.

55

ESEARCI RM BLOCK D 6TH F

Wood

waterproof and for easy cleaning. As well as this there to using wood in a sixth it is quite available, and it can be varnished to be such as MDF and Plywood can be laminated with thin sheets of wood to reduce the cost even more, and still wood that can create a theme throughout the building, go with other materials stronger and will hold screws, nail and glue better as it can be quite cheap as well and can set the tone of a room. Man made woods finish, but maybe even they do not warp like natural woods There are several advantages form block. If it is a soft wood, are many different types of come out with the same

Plastic

There are many different kinds of plastics that could be used to come in different colours to suit the colour scheme of the room and is useful for furniture such as tables and chairs where I don't want too much money to be put into. The downside to plastic is that it can look quite tacky if not used tastefully and in the right way, and can me marked and scratched easily depending on what it is.

Metal

I am reluctant to use metal in my design, as it is expensive, and loos very industrial, however once again used in the right way and in moderate amounts could look contemporary and modern. The colours and properties of different types of metal give a wide variety of what could be used, depending on what it is needed for. It needs to be easy to clean, quite strong and go well with the colour scheme.

Other

Other materials, such as fabrics like cotton and leather need to be looked at for furniture like sofas and chairs for their properties such as easy cleaning, variety of colours, durability and water resistance.

Other materials such as glass will play a big part in my design, obviously for windows and maybe in many other aspects as it is a contemporary material and can make things looks quite modern and fancy. Obviously with glass come safety issues that need to be addressed as it can be smashes easily, although you can get smash resistant glass.

MATERIALS AND COLOURS

Material	Type	Advantages	Disadvantages	Decision
Maple	Wood	Good colour, light, fairty strong, moderate priced, nice grain pattern.	Prone to warping.	I think this is the wood to use because of its colour.
Pine	Soft Wood	Straight grained, fairly strong, easy to work, cost effective, readily available, golden orangey colour, quite light.	Knotty and quite a harsh orange colour which might not go with as many colour schemes.	I don't think it would be good for the sixth form block because of its colour.
Mahogany	Wood	Easy to work, fairly strong, durable, available in big sizes, medium weight,	Has difficult interlocking grain and is prone to warping. Also has a very dark colour which may darken the room if used a lot.	I don't think it would be good for the sixth form block because of its colour.
Oak	Wood	Strong, durable, tough, hard, finishes well, has a nice light-ish colour too it (the European kind).	Contains corrosive acid, very heavy, any fittings leave a blue stain on the wood, and it is very expensive.	The fact that it is heavy and expensive is one thing, but I don't think it is suitable because the colour is slightly too dark.
Acrylic (Polymethyl methacrylate)	Plastic	Stiff, hard, durable, safe it food, good chemical resistance, machines well, colours well, polishes well.	Scratches easily, difficult to join.	I think this is a good option to use as it is durable and comes in a lot of colours.
uPVC (Polyvinyl chloride)	Plastic	Weather resistance, stiff, hard, tough, lightweight, wide colour range, flexible.	Needs to be stabilised for out door use.	I think this is a good option to use as it has only advantages as I only need it for indoor use.
ABS (Acrylonitrile butadienestyrene)	Plastic	High impact strength and toughness, scratch resistant, light, durable, high quality surface finish.		I think this is a good option to use as it has only advantages.
Stainless Steel	Metal	Hard, though, resist wear and corrosion, quite malleable if in the right form, Good colour,	Shows greasy marks easily, difficult to cut or file.	I think this might be an option to use for the colour and the properties apart from the marks it shows easily.
Aluminium	Metal	Good strength to weight ratio, light, soft, ductile, non toxic, corrosion resistant, good colour, polishes well.	Difficult to join, annealing necessary	all, this would be the one to use as it has the right colour, is relatively cheap and has good properties.

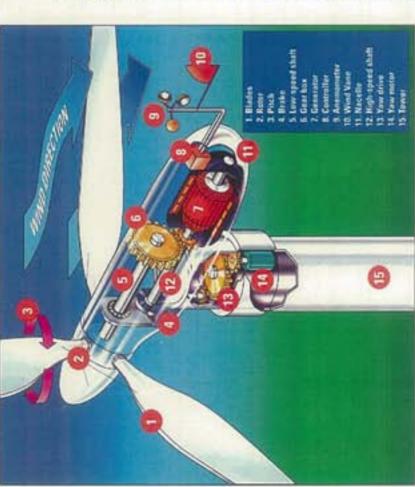
ORM BLOCK DESIGN - RESEARCH 6TH F(

SUSTAINABILITY I have decided as well as trying to use more sustainable resources I want to add something extra into the building to make it that much more eco-friendly and self sufficient, so as well as looking at different possibilities of how to do the interior I am anima to much more eco-friendly and self sufficient, so as well as looking at different possibilities of how to do the interior I am going to look at some different ways of powering the 6th form block without using conventional power.

PHOTOVOLTAIC CELLS

A photovoltaic cell is a type of Photoelectric cell that uses the photovoltaic effect to generate electrical energy using the potential difference that arises between materials when the surface of the cell is exposed to radiation.

This, on top of the sixth form block could produce a fair amount of the energy needed to run the centre using sunlight as the source of radiation. The sun is a sustainable, renewable source of energy so would help a long way in making the building sustainable. I think it is a very good idea as, although they have complicated systems they are a lot more descrete than soemthing such as a wind turbine, they are flat, and could easily be integrated as part of a roof garden which seemed to be a popular idea in the questionaire.



PHOTOVOLTAIC Transparent magnitude Transpare

MINI WIND TURBINE

Small wind turbines are wind turbines which have lower energy output than large commercial wind turbines, such as those found in wind farms. These turbines may be as small as a fifty watt generator for boat or caravan use. It works by converting the kinetic energy from the wind rotating the blades, into mechanical energy and using that to make electricity. This electricity could then be used like any other to supply a building,

This would make it very suitable for the kind of thing I am looking for as although it may not produce all of it it could produce some of the energy for the 6th form block. However there are some downsides, the wind turbine would only produce electricity on windy days where as the photovoltaic cell produces using any kind of light. Therefore on very mild none windy days the block will have to rely compeltely on the normal power input. Aswell as this, wind turbines are not as discreet and they stick right out and look quite ugly, as well as making a lot of poise.

SUSTANABLE MATERIALS

Most kinds of wood are sustainable. Man made woods however such as MDF or plywood take a lot of processing and this is not sustainable. The cutting down of trees for wood is not sustainable either. However there is a new scheme in place where for every tree cut down 3 more have to be planted to replace it, to save the rainforests and wooded areas around the world. The finishing that would be needed for wood is also harmful to the environment. However wood is recyclable and this is very sustainable.





All plastics, including thermo plastics are not very sustainable. They require a lot to chemicals and processing the produce them and this is harmful to the environment. Thermo plastics can be reformed into different shapes and are therefore in a way recyclable but not without difficulty, as reprocessing them can also be harmful to the environment.

ESEARC RAM BLOCK DESIGN - RI 6TH F

client, Ms Robins the head of sixth form to see what the most important aspects of the design are. I am then going to use this, and the rest of my to form a specification for the design of my sixth form block that I can make sure it is as good a possible and what people want I am going to interview my research

CLIENT INTERVIEW

What are the most important aspects of the 6th form block to you?

is also very important for the students to have that is separated from the The study area is a very important part of the 6th form block because after It needs to be comfortable but a space some peace and quiet. An out door area rest of the school for in summer when it is warm and they want to be where it is easy to work and have all that's what 6th form is about. outside.

6th form block needs? How much space do you think the

form is expanding and it would be nice to have enough space to do this. I although there is enough space the 6th think extra space from what there is now is essential, and maybe a second as it would keep within the restraints in 6th form in the school, Considering the design of it now, floor is a good way of doing this terms of the space allotted for the

what should I include that the current 6th In my design of the 6th form block. form block does not have?

I think how the 6th form block looks is just as important as its functions. It needs to reflect that the 6th form at Branston Community College is a space will make it a nicer place to be and lighten the atmosphere. Also, it modern place to learn and attract potential students. Creating a modern hasn't been updated in a long time so it will make a big difference.

Do you think I should try and work in the idea of sustainability into my design and if so how?

helping the environment is a very big issue in the present day. Making it I think the 6th form block should be made as sustainable as possible, as sustainable would save the school precious money on keeping it up. Your This will also attract the attention of a lot of other people around the county and maybe a good way of attracting new students. It would make the idea of alternative sustainable power sources such as solar panels is good. redesign of the 6th form block even more innovative.

Is there anything else you would like to give your opinion on?

health and safety must be thought about for legal reasons. Regulations all thy will have to use it and may well have the best ideas. As well as this I think the students voice needs to be heard in terms of the design as after must be met for instance the number of toilets and the kitchen area

SPECIFICATION

Form

- The 6th form block must fit into the space allocated into the school and cannot be any bigger because there is no
 - other room around the area allocated, therefore there is no room for expansion.
- The 6th form block must look modern. With this it must use a modern colour scheme that's young and contemporary with modern materials that go as well. This is so the 6th form block will be attractive to its target The 6" form block must have enough space for around 200 students plus space for 6 members of staff to register and 2 members of staff to have as a base.
- The 6" form block must feel light and airy, not dark and dingy. There must be plenty of natural in the room so as to cut down on the need for electrically powered lighting so that it is more sustainable.
- The 6th for block must have two floors for more space, to allow the 6th form population of students to expand and so that it is a bit more comfortable. My client also suggested that this should be a must in the design. There must be good access, with double space for plenty of room.
 - The 6" form block must have a feature in it, so that as well as a working 6" form block it looks like an innovative, modern space

Function

- The 6th form block must include a separate study area and relaxing/social area so that people who are trying to work do not get distracted and can get some quiet, because that is the point of 6th form.
- The 6" form block must also include a kitchen area, toilets, lockers, offices, an outdoor area and a storage facility as this is what was found from the research.
- The second floor of the 6th form block must be at a height where it leaves plenty of room underneath so that it does not feel too closed in.

- Although the 6th from block must look good, it also must look predominantly like a work place as that is its main purpose. It has to look relaxing, but to the parents of prospective students it must look like place that they will get lots of work done with the correct facilities rather than just a socialising area.
 - The 6" form block must be safe and follow health and safety regulations. It must also follow any other regulations in terms of school facilities such as numbers of doors, windows and toilets.
- The 6th for block must have two floors for more space, to allow the 6th form population of students to expand and so that it is a bit more comfortable. My client also suggested that this should be a must in the design. There must be good access, with double space for plenty of room.

Cost

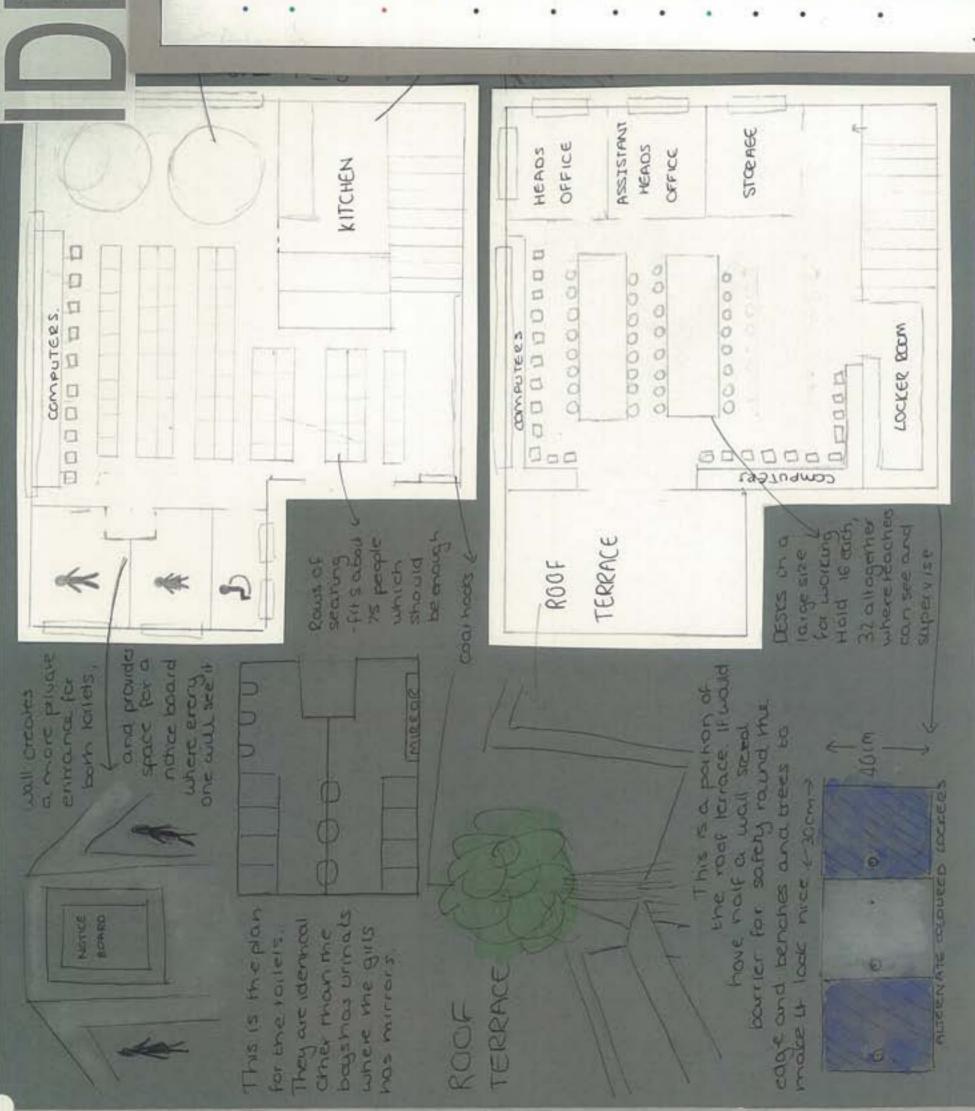
- The design must ensure that the 6th form block will be fairly cost effective to produce as the school is running off a tight government budget and cannot afford to spend a lot on things it doesn't need such as excessive decoration.
 - Sustainability

 The 6th form block must have an alternative sustainable power source as part of it to provide some of the power needed to run it, because this is important in the present day and therefore should be included. As well as this the materials used should try to be sustainable.
 - The 6th form block must feel light and airy, not dark and dingy. There must be plenty of natural in the room so as to cut down on the need for electrically powered lighting so that it is more sustainable.
- The Sixth form block must use sustainable materials that can be re used or recycled in a clean way and will save on using new resources.

Technical

- The second floor of the 6th form block must be at a height where it leaves plenty of room underneath so that it does not feel too closed in. .
- The structure of the building must be sound and viable so that it is safe, and the second floor must hold up

OCK DESIGN - CLIENT INTERVIEW AND SPECIFICATION 6TH FORM BI

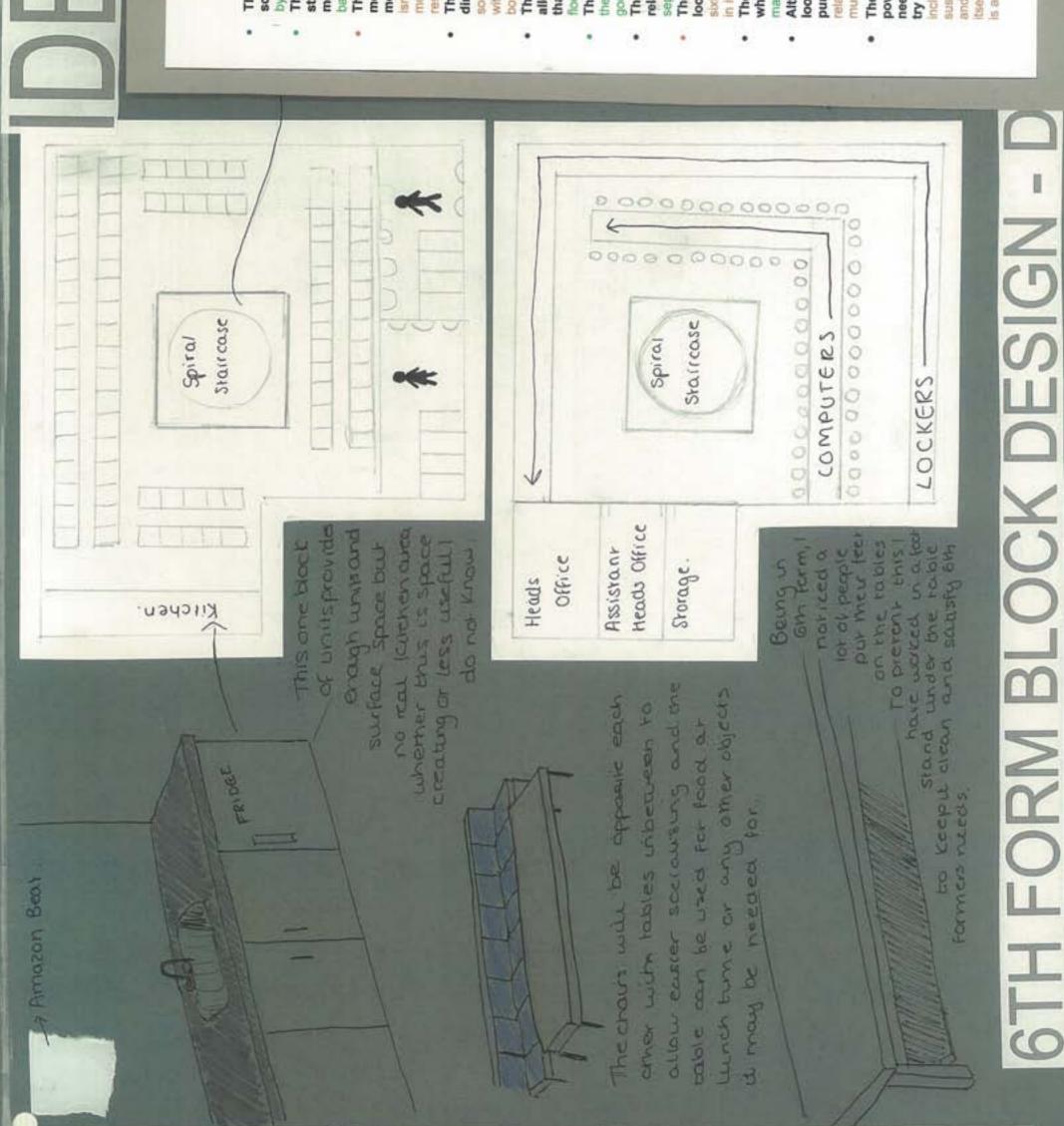


EVALUATION - AGAINST

SPECIFICATION

- The 6th form block must fit into the space allocated into the school and cannot be any bigger. It fits into the space allocated
- The 6th form block must have enough space for around 200 students plus space for 6 members of staff to register and 2 members of staff to have as a base. There is plenty of space but actually far too much. All the separate places defined are there, for instance there is even a specific place for registering.
- The 6th form block must look modern. With this it must use a modern colour scheme that's young and contemporary with modern materials that go as well. The design isn't old, but it isn't exactly modern. There is nothing about it that sticks out as modern, however using the night colours and materials could chance that
- The 6th form block must feel light and alry, not dark and dingy. There must be plenty of natural in the room. There are some big windows in this design, but it is still very full especially with two full floors, so I think this might make it feel closed in and
- The 6th for block must have two floors for more space, to allow the 6th form population of students to expand and so that it is a bit more comfortable. If has two full separate defined floors
- The 6th form block must have a feature in it. The round sofa booths are a bit like a feature, but there is still nothing that is one blo main feature.
 - The 6th form block must include a separate study area and relaxing/social area. The areas are on different floors, which separates them well.
 - The 6th form block must also include a kitchen area, toilets, lockers, offices, an outdoor area and a storage facility. It has everything required.
 - The second floor of the 6th form block must be at a height where it leaves plenty of room underneath. Yes, although it
- Although the 6th from block must look good, it also must look predominantly like a work place as that is its main purpose. The work area is upstairs, and you enter into the relaxing area, so there is a balance but the first floor feels very much like a work area.
- The 6th form block must have an alternative sustainable power source as part of it to provide some of the power needed to run it. As well as this the materials used should try to be sustainable. Although the design doesn't directly include any sustainable detail, there is plenty of potential for sustainable materials to be used for all the different components and an opportunity for solar panels on the fiat roof. However there is a lot of things in the design that maybe are not needed, which is therefore waste and therefore unsustainable.

6TH FOR

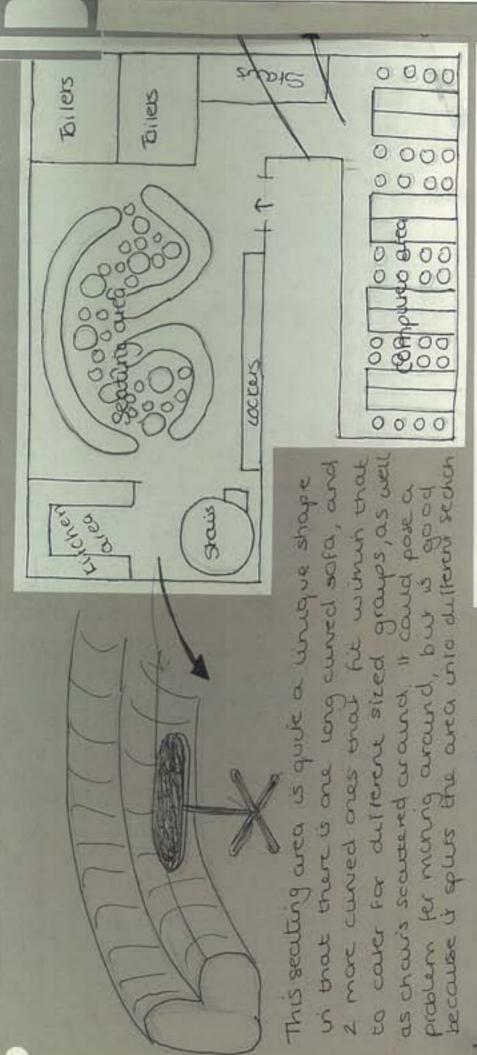


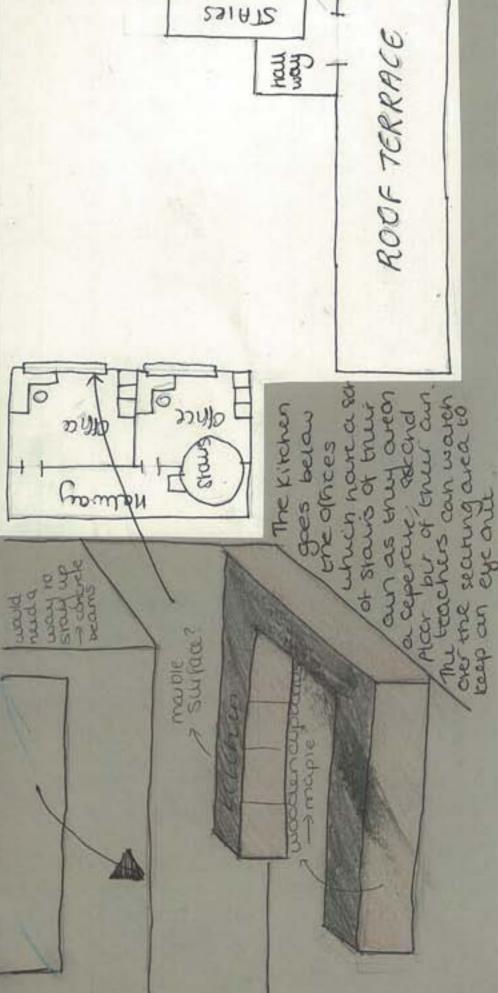
EVALUATION - AGAINST

SPECIFICATION

- The 6th form block must fit into the space allocated into the school and cannot be any bigger. It fits into the space allocated
- The 6° form block must have enough space for around 200 students plus space for 6 members of staff to register and 2 members of staff to have as a base. There is a very good balance of space here, there is not too much but not too little.
 - The 6th form block must look modern. With this it must use a modern colour scheme that's young and contemporary with modern materials that go as well. The design isn't old, but it isn't exactly modern. The glass and metal stairs look very modern, and using the right colours and materials through out the rest of the design will ensure it looks modern.
- The 6th form block must feel light and alry, not dark and dingy. There must be plenty of natural in the room. There are some big windows in this design, but it is still very full especially with two full floors, so I think this might make it feel closed in and
- The 6th for block must have two floors for more space, to allow the 6th form population of students to expand and so that it is a bit more comfortable. It has two full separate defined floors.

 The 6th form block must have a feature in it. The stair case in
 - The 6th form block must have a feature in it. The stair case in the centre of the room, spiralling upwards is a feature, and a very good one I think.
- The 6th form block must include a separate study area and relaxing/social area. The areas are on different floors, which separate them well.
 - The 6th form block must also include a kitchen area, tollets, lockers, offices, an outdoor area and a storage facility. The sixth form block design does not have an outdoor area included in it which is a big problem.
 - The second floor of the 6th form block must be at a height where it leaves plenty of room underneath. Yes, although it
- Although the 6th from block must look good, it also must look predominantly like a work place as that is its main purpose. The work area is upstairs, and you enter into the relaxing area, so there is a balance but the first floor feels very much like a work area.
- The 6" form block must have an alternative sustainable power source as part of it to provide some of the power needed to run it. As well as this the materials used should try to be sustainable. Although the design doesn't directly include any sustainable detail, there is plenty of potential for sustainable materials to be used for all the different components and an opportunity for solar panels on the flat roof. The design itself is not wasteful, it only includes things that are needed which is a good thing for sustainability.





SOCK DESIGN 6TH FORM

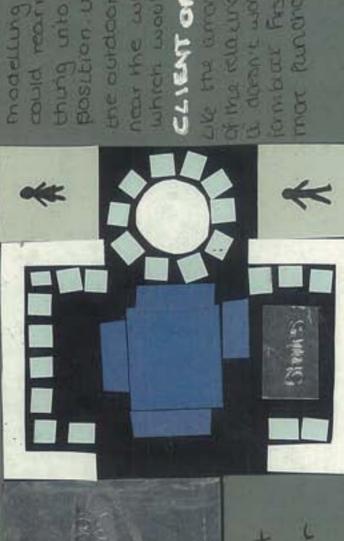
PAH REE

EVALUATION - AGAINST SPECIFICATION

- The 6th form block must fit into the space allocated into the school and cannot be any bigger. It fits into the space allocated
- The 6th form block must have enough space for around 200 students plus space for 6 members of staff to register and 2 members of staff to have as a base. There is space for all the students bearing in mind some of them will be relaxing, some of them will be working at any one time. There are offices for the head and deputy head of sixth form, but no real space for the backers to do their registers.
- The 6th form block must look modern. With this it must use a modern colour scheme that's young and contemporary with modern materials that go as well. This is quite a modern design, with the mezzanine floor offices and roof terrace, however there isn't anything that sticks out particularly as very
- The 6th form block must feel light and airy, not dark and dingy. There must be plenty of natural in the room. Due to the mezzanine office level, there will be a lot of light as the walls are 2 storeys big enabling large windows to be put in for natural light.
 - The 6" for block must have two floors for more space, to allow the 6" form population of students to expand and so that it is a bit more comfortable. This design is good in that it has all the space needed, but does not waste space in that it only has the bits of the second floor that are needed to create room, and does not waste money and light creating space that is not needed.
- The 6th form block must have a feature in it. It has no feature.
 The 6th form block must include a separate study area and relaxing/social area. The areas are separate but not by walls or
 - doors, which keeps it open, perfect.

 The 6th form block must also include a kitchen area, toilets, lockers, offices, an outdoor area and a storage facility. No
- The second floor of the 6th form block must be at a height where it leaves plenty of room underneath. It does helped by mazzanine level
- Although the 6th from block must look good, it also must look predominantly like a work place as that is its main purpose. The work area is hidden, and you enter into the relaxing area, so there is a balance but the work area feels very much like a work area.
 - The 6th form block must have an alternative sustainable power source as part of it to provide some of the power needed to run it. As well as this the materials used should try to be sustainable. Although the design doesn't directly include any sustainable detail, there is pienty of potential for sustainable materials to be used for all the different components and an opportunity for solar panels on the flat roof. As well as this it is sustainable in that there is not wasted space and the fact that it allows for so much natural light will cut on electricity usage.

Ground Floor



tudy ables

of the design there is a glot no much mare relaxed pratteal some of the solos binger a curved way and the curved way are not of 8 the bing are of the solos will normal seats and a fee to be sold and better and return and better and return and better and return and better and return and return and return and return and return and or the solution of the

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orners and in the core of the study sear the correct is a lot of study sear the core of study search sea

Seats

EVALUATION – AGAINST SPECIFICATION Design on the LEFT

- The 6th form block must fit into the space allocated into the school and cannot be any bigger. It fits into the space allocated
- The 6th form block must have enough space for around 200 students plus space for 6 members of staff to register and 2 members of staff to have as a base. There is enough space providing that students spread out between the work area and the relaxing area.
 - The 6th form block must look modern. With this it must use a modern colour scheme that's young and contemporary with modern materials that go as well. The curvy seating around the relaxing area is a very modern, unique design and so is the big, circular study table on the top floor.
 - The 6th form block must feel light and airy, not dark and dingy. There must be plenty of natural in the room. There are plenty of windows included in this design, and quite lot of space for the students to move around in, which makes it feel light and airy, but not quite like the design with the mezzanine floor.
- The 6th for block must have two floors for more space, to allow the 6th form population of students to expand and so that it is a bit more comfortable. It has two full separate defined
- The 6th form block must have a feature in it. The sixth form block does not have a feature in it at all.
- The 6th form block must include a separate study area and relaxing/social area. The areas are on different floors, which separate them well.
 - The 6th form block must also include a kitchen area, tollets, lockers, offices, an outdoor area and a storage facility. The sixth form block design does not have a storage area included in it which is a big problem in a lot of the designs, is it really needed?
 - where it leaves plenty of room underneath. Yes, although it
- Although the 6th from block must look good, it also must look predominantly like a work place as that is its main purpose. The work area is upstairs, and you enter into the relaxing area, so there is a balance but the first floor feels very much like a work area.
 - The 6th form block must have an alternative sustainable power source as part of it to provide some of the power needed to run it. As well as this the materials used should try to be sustainable. Although the design doesn't directly include any sustainable detail, there is plenty of potential for sustainable materials to be used for all the different components and an opportunity for solar panels on the flat roof. The design itself is not wasteful; it only includes things that are needed which are a good thing for sustainability.

M BLOCK DESIGN - DESIGN ID

Y V

GLASS STAIRCASE

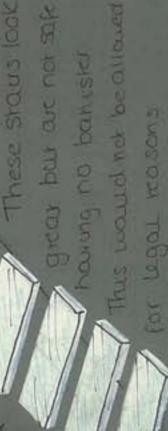
This slavicase is designed to look as if its floating nowever it will be Very expensive. The

glass will have to go quite rar unite the wall and

be thick

CLIENT

OPINION



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and

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This escalaror

ESCA LATOR

for colours to

agan regumenne Macre university TOURSEL DIVIN RALLING Ook a bor

LIFTS /ELEVATORS

These lifts are very moder

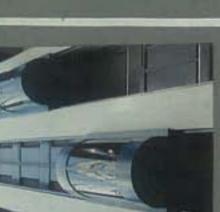
STAIRCASE

SPIRA

the right, I like glass on born, on Like the idear of

the ourside of the THIS WOULD bounding, of the

creating option blass and meral looks very modern Style of space



o Lat of space seppic (allor of) byung line spiral Staucosse Locks groot and soves a lot of space as go up and dawn however would be very outleast for

WOODEN STAIRCASE WITH GLASS BANISTER

This staucose

us praco cal

quicke cheesp and it looks

20-2100 CLEAT

These Stagnis פרוחובטי דט OUC WYSON

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luke the sides markes it look of thics . The Unfermorelly top our the escalorers colour and are very

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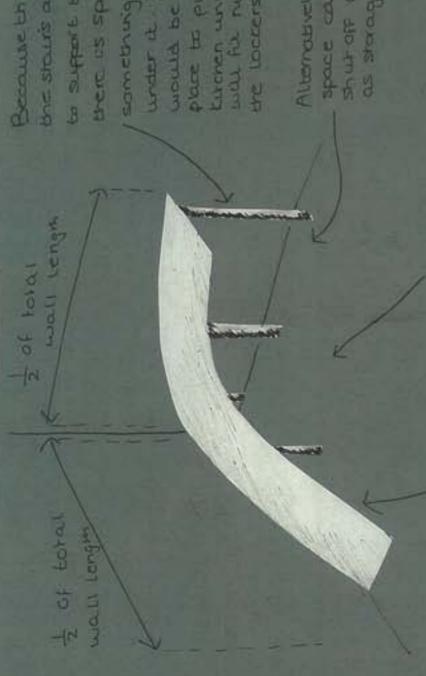
glass

Banisher

ESCALATOR

6TH FORM BLOCK DESIGN - DESIGN IDEAS

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shuraft and used as Alternatively thus could be

Cures round, turns doesn't bake up that Could be puru track on theelf of the room, as a son of fearure MULEIN SPORER of the middle the corner or

whose of as it is another of a space of Hourd to

very wide to fit the value

Stairs would have to be Once again I thunk the

of people on that it would on a regular school day

Rounded to the Shape of the room. Goes smoothly round the corner up and down them at the The spains would have to a

Stowes be wide to fit everyone on Again because these

STALKS LUCKA Corse hunds can pe under these is used as a fearure a way picked becomes if the stant of centrally so it could be Country but not storage

This definancing looks have like a Reserve show that is has a unique shape, it an easily be central but it shill is pro-cool

The start case is smiller to the one than us top lette of thus page, except it has an unierperung shape

the feather showing 26x plywood 20mm wood as thus It will also my obesign dad well

spuration

bed mod



FINAL DES to the ones OLEON BIOS

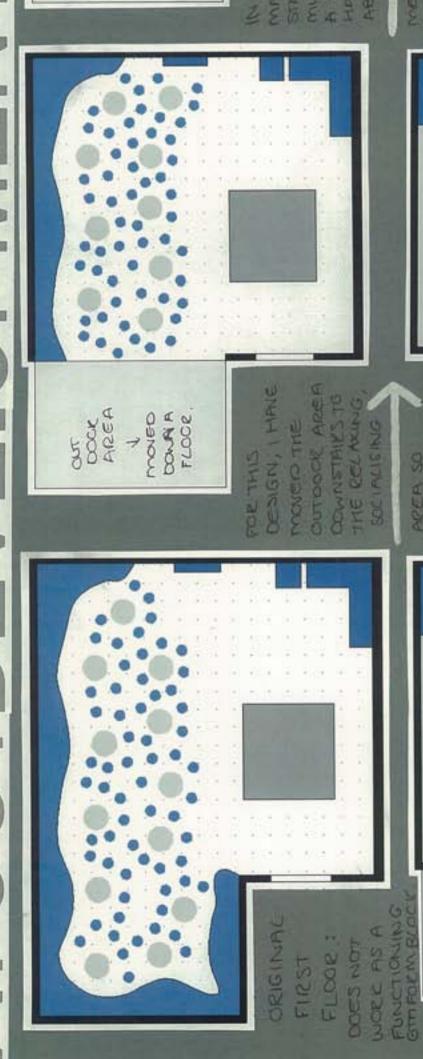
between the rouls

plan

bound shers a

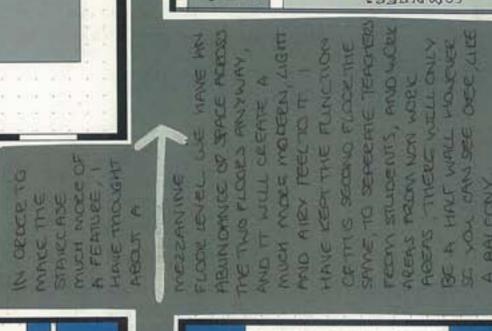
OPMENT M BLOCK DESIGN





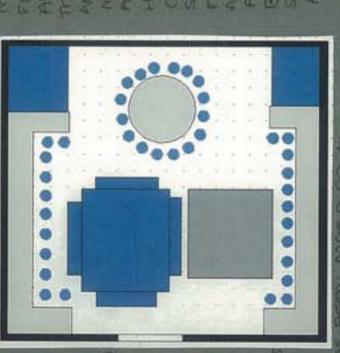
ORIGINA

FIRST



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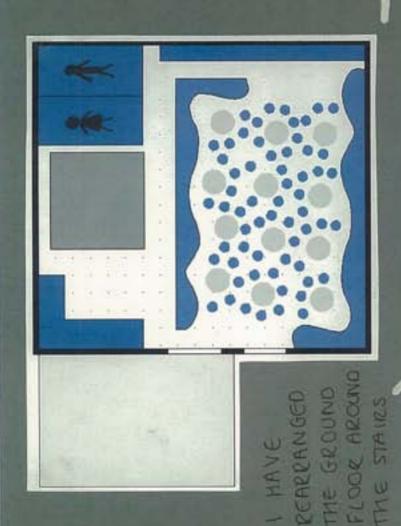
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SCCAND FLGOR OUTSIDE FIREA HOO CLOSE TG STUDY AREA

GRIGINAL



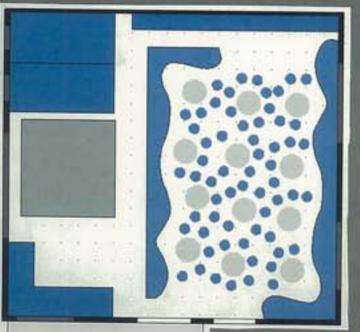
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THE GIM FORM
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FINE CAST
STAGE OF COVELOFMENT IS WINDOWS
FINE MAIN CAST

THE MAIN ENITAINCE IS FROM
THE SIDE HAD HAS BEEN
MOVED FROM ITS GUIGINAL
POSTION THIS IS SO IT GETS
MINKINGIN STREET WHEN
PERPLE WALL IN THE

WINDOWS FIRE EVERY
WHERE TO BET MANIMUM LIGHT, AND CAN BE AND MIGH ON THE LEFT HAND SIDE

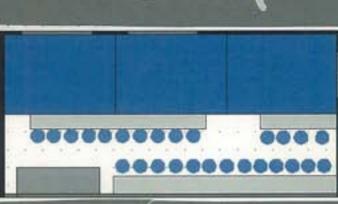
BIG

ON THE LEFT HAND SIDE AND THBLES BYCEVWHOLE, HOUGHER THERE IS CATSIDE THE CEPTICES WINCH SHINKING NONE WICK HOER TO KEED AN EVEDN THA RELAKED SEATING, BUT IT MAY BE MARGING THERE ARE QUITE A CENT COMPUT HOMEVER 100 LIKE MON WHEN TO SEE THEOLOGY THE CARGE WARD BUT STILL IN SIGHT AND YOU LOGIE ONER THE BAICDON YOU WILL TO DONCE BOTH FLEDES THE LITCHEN'S MIV CLIENT, BUT THEY CAN PLES SEE THE FOR RESPONDENCE TO GO ON, AND PLENTINGS WALK THENCH BECAUSE THEE TO THIS PRIVATE CATTLES AGEN DISTANCE OF THE KITCHEN Bacce KV



Sround

A First



FLoor

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STAIRS AND THE

UNDER THE

TOILETS ARE MIDDEN AWAY

INDELNERIN THE MCZCANIME

TO SOCIALISING, AND THERE REE

PLENTY OF TABLES, THE

THEY ARE MUCH MORE SUITED

SMAPE OF THE SERTS AS

HANE LEFT THE CURVY

THE MEZZANINE FLOOR

MORE OF A FERTURE PLACE, AND MOST CONVENIENT FOR

MOVED THE STAIRS TO BE

I MAVE

M BLOCK DESIGN - DEVELOPME 6TH FOR



DECKET S FEW TON GET TITLE X+17, MS. 110 APART CECCO THE THE THICK THE GOLDING FIRMS HE THE THE BASE COLCUROFINE PR SYMPHS ARE FILE POSSIBLE

DOUGH SOME SALES

SCHOOL TYENG BUT HUDBER OF INTEREST CHARLES THE LUSTE AS STATEMENT - Regal Regala 3

0

BASE -> Steel Symphony

VELOPME BLOCK DESIGN - DE

Dulux

Bakk

A STANDANGE FOR THE STANDANGE

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COULD BET A BETTER SENSE OF
VURINT NEEDED GUNNENG. I GHANGED
THE WAY THE TOLLOTS WERE SPELT
TO MAKE THE MOST OF THE
FNALABLE SPACE 1 AIN GUTLE

HAPPY WITH THE BENEEAL

HOW THE ENCHEN IS OUT THE WARY WITTH ALOT OF SPACE POUND IT.
WHE BOST FART IS THAT THE WARY THE ROOM IS LAYED OUT MICHINS THE THINK THIS IS A GOGO CERTICIEC I ALSO CIECE WAY THAT THE TOP FLECK LOOKS - ESPECIACLY CICE OVER THE BOTTON FLOOR, 17 CANOCT

PLOOP: 1 LIKE THE CHYOUT OF THE FECHUD NOT MAIN FEATURES & TOICCIS ARE TUCKED BINAY SO ALLEY HE CLICAT LIEN ON GROUND

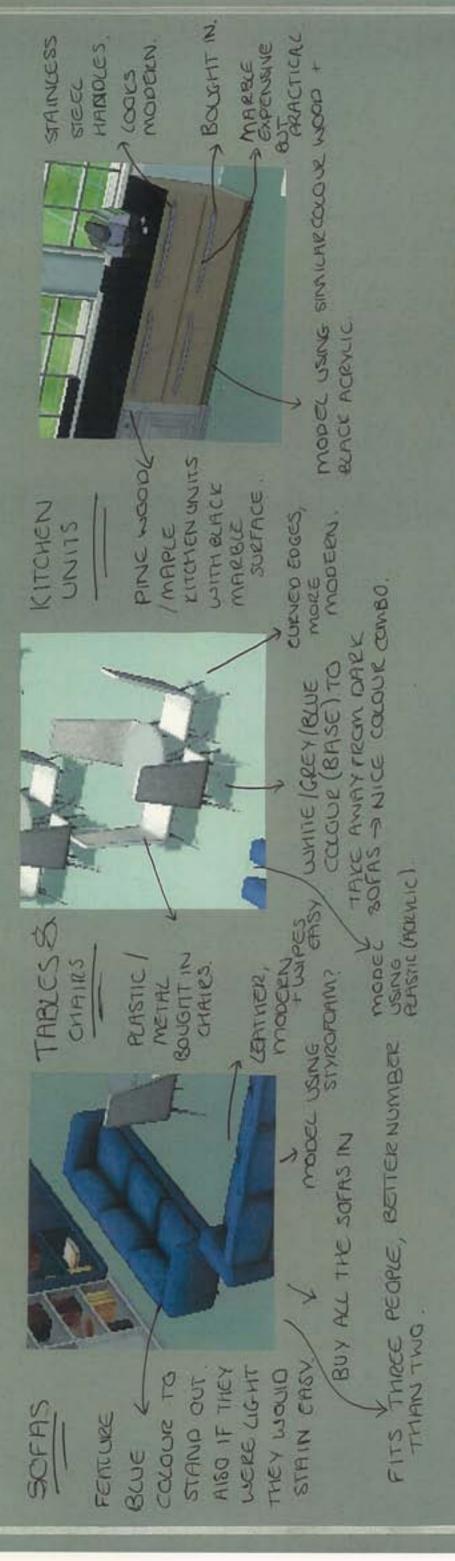
GIND SPACE

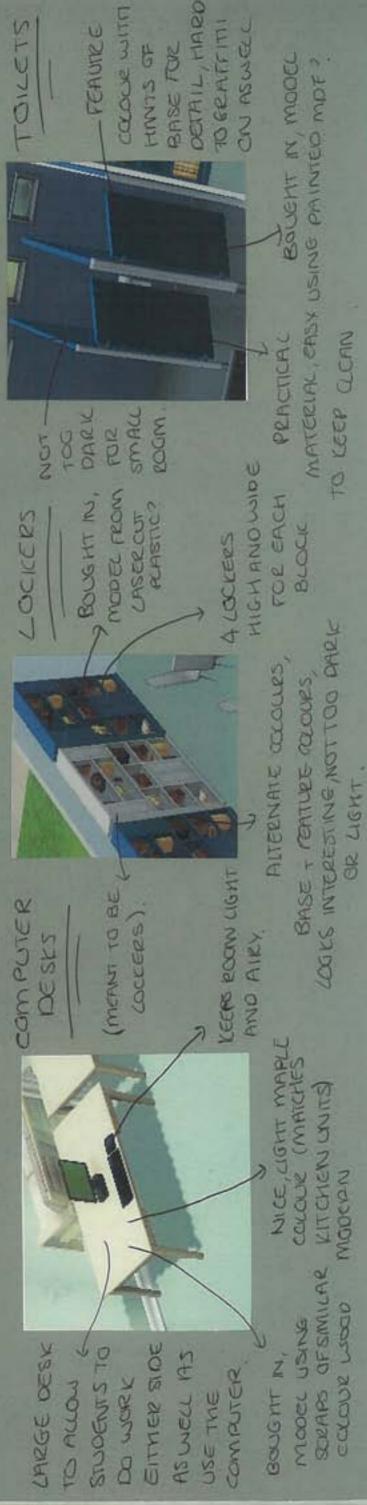
BUILDING FOEL BIGGOR BECAUSE IT IS PROBE OPEN I LIKE HOW THE WORK SPACE ON THE MICZZANINE FLOOR AREH IS UP THOUSE AS WELL SO IT IS DOWN PLETELY OUT OF THE WAY AND I BENLLY LICE AME LAYOUT OF THE PEOPLE CAIN CONDENTIENTE, THE CARGE GLASS WALLS ON THE OFFICES LENGE THAN THERE WAY THIS IS BECHUSE IT MAKED THE ENTIRE ALLOW TEACHTEES TO SEE OUT, MND LIGHT TO 80 IN CLIENT LIEW ON FIRST FLOOR CLOS THOUGH THERE IS

RETHAT I CANNOT KEEP AN CYEON NOWE WAS LEED, BUT ACOUALLY THE MECANINE FLECK AND SLASS WINDOWS (WALLS MAKES IT EASY TO KEEP AN CYEON THOSE WHO AND ANOSE WHO ARE STOKAGE AND THE STOKAGE AND T



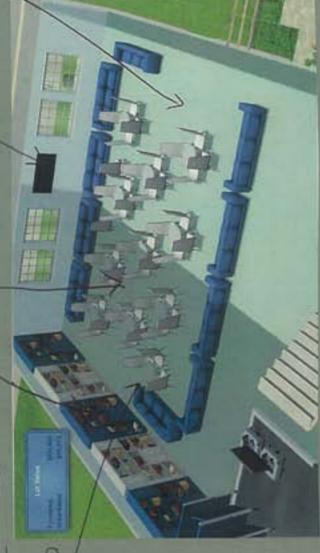
HAMMAN TO BY





SOUTH IN GLOUD SERTING AREA

SOFTHS ROUND FOR CASE OF TABLES AND ANOTO SULT THE MIDDLE SOCIAIBANG THE COGG, Nectos C.9 CHAIRS IN PIEFERENT



DAJLY NOTICES

TOIL ETS

CNOCK THE STAIRS SMACLER WINDOWS とろ リエヤ しつひ BOYS, BOYS HAVE TO SUIT PURPOSE make Joicets JUNESS THINK CERTAL

KEPT WITH THE SAME FOLLOW THE THEME COLOUR SCHEME TO THROUGH

SINES COMING OF THE WALL TO SAME SPACE - FEEL BIGGER

NEEY LARGE AREA SEE AS YOU WALK IN. CONCREDBY 7SF FLOCE,

VERY OUT OF THE WAY, BUT THE CABINETS SOMETION FRAME FEATURE STAIRCASE

MICROWNYE, FRIDSE BASIG APPLIANCE, KITCHEN FIREM SINK PUS A

DRINKS MACHNE

VONDING / HOT

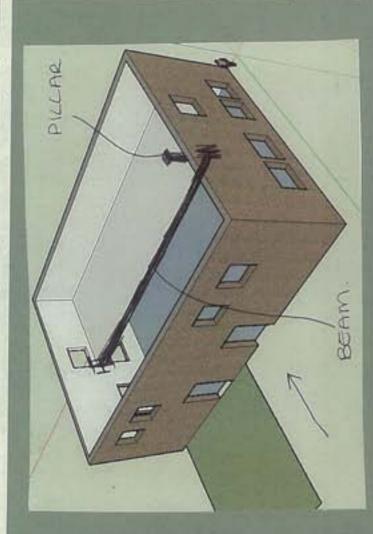
SLOGINA OFFICES DOCUS GLASS



USED 10 SHARE AN OFFICE, BUT NOW HAVE ONE CACH MAYBE NEEDS MORE FLUENTIURE TRIBLE? MORE STORAGE?

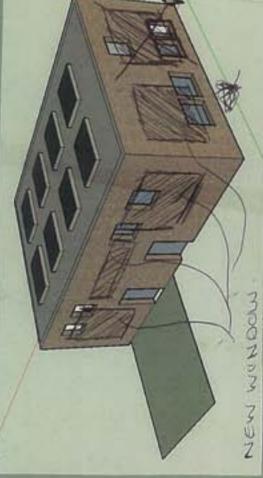
SEE BOT CHSICY COOKS K VERY MOREPHIA CONTERM POR AIRY ALSO

DEWELLOPMENT



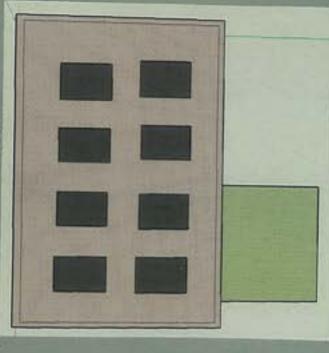
The mazzantine floor level is key lauge and therefore county be held up, just by the three law surface I am going to use beams and pullate one beam wild go smaugh oveross from one cursicle wall to the mezzanne (1000 Isham on

image above) Then, tooking at the building from the way shaw by the arrays on the image the tett of one track is held up further by the wants of the tooking a filler show also on the image. The walls well be needed on the image. walls to again our dawn on energy useage CONCRY BEDWEEN UNE



I have deceded to change the mindows in keeping with the floor lard guinng a beg open space. Large windows that cover barn floors worth to They would be expensive but worth to They would be downer of course one would he down got course one would have downer of course one would have downer of course one would have to become glazed to sove in except of the work have to become of the sold one become to be course of the work have to become of the work of the wor

The roof of the Ben form block well be floot Thus is because thus is where the solor poinces will be and a floor poinces will be and a floor poince will be and them to cover a maximism amount of sunlight. Thus is the most case effective and There are systems that more the poinces depending on where the sun is in me sky, but this is too Oxpensive and would look out of place in a school of



Aswell as thus a stainled rook would look add as the rest of the school has flat toops The space charted by a stained rook would also be washed and their for is pountes.

DRAWINGS



THREES - CARINES (SEE - RAISTIC + MET AL

MATIERIAIS

MDF, with a true lauger of Maybe en top be our easy to dean tamentare, as the is grantly finesh. It will probably wood that is going to be used during apple and comes in many cost the Houng well for the light adon dufferent coldins and styles arranghave is mappie to ever down one cheap and The main

CUTSIDE OF THE BUILDING

breeks however as shown on the duagreem misice the boundary look good and can mucred from the regulation concrete places The ourside wilk he ene red AS STATED BEFORE the would be on width the Hear OF

aesthancouly red brick

BLEWES

FGLASS

MARKE

-CHSYTO

2070

SOTAS

Inside of

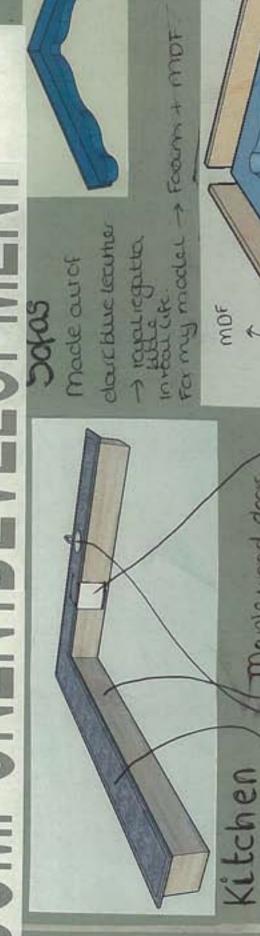
plaster

Sound





BLOCK DESIGN - DEVELOPMENT 6TH FORM



more made von induce,

Black marble

Sturface

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- tocks good

Jespensare

- waver picol

Emdge integrated une cupiboards - nice and enected owners.

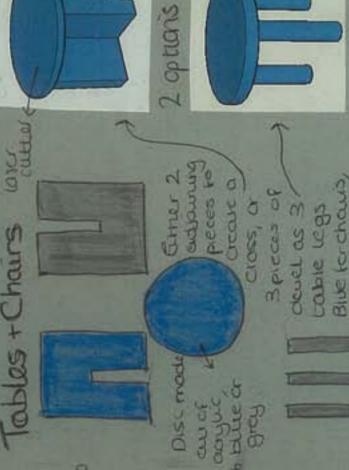
Stat sine and tap with drawing board eur min

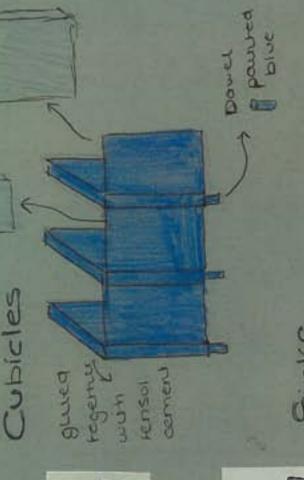
For the model:

- wood pieces for cabiners

- Black acrylic to with It

has drived with 10.5 mm drue but
on potion drue of cone of paper under
for SINIF.



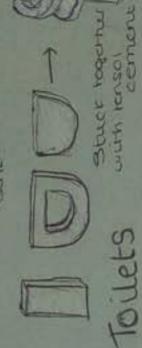


Sunks

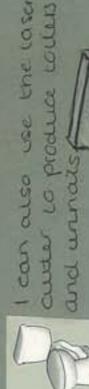
FORM CUT INTO CUEVY SHAPE.

on the laser cutter

1 cen erecute pieces to
put respertue, to make a
eunt



easier to moss make on







Grey fer habites

FWEIOPWENT

whe risk of the building with the froming camping on through is the Head of Sixth Forms, my chiena mor or secting if needed Thus is the final layour of the It has the same colour scheme as offices. Thus office in particular There is outer of space lept in the but the rest will be the same Olhice, for the teachers to add

- straish can caud go here to be hudden

on the one side of thus There is a natice board wall for the head to

rnost of nourcal

ugne.

Thus due ign

chrangh

makes the

Teacher con warch or working students. nang up renewaters A table could be fitted neve for more surface space

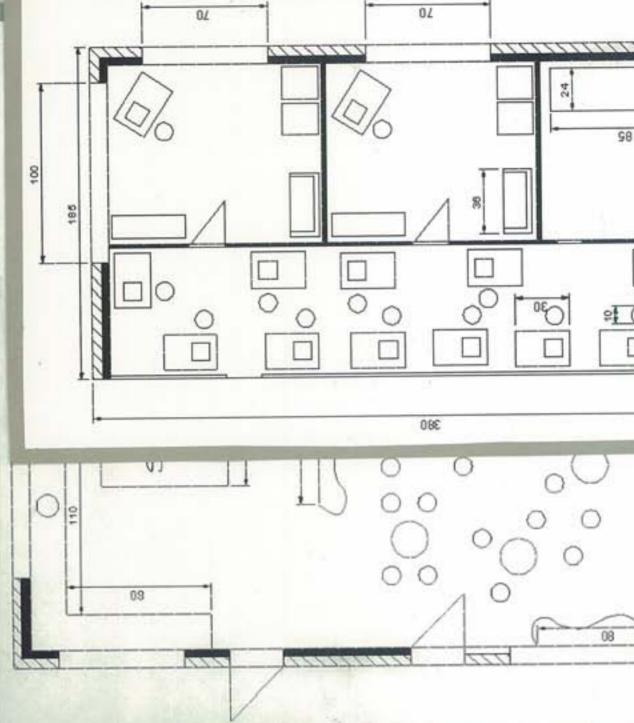
shatter repusitions glass icol of the mizzannic This wall between the office and the ou of wanthucurt week will be made to culture agant to from enrangh. & feus mer open

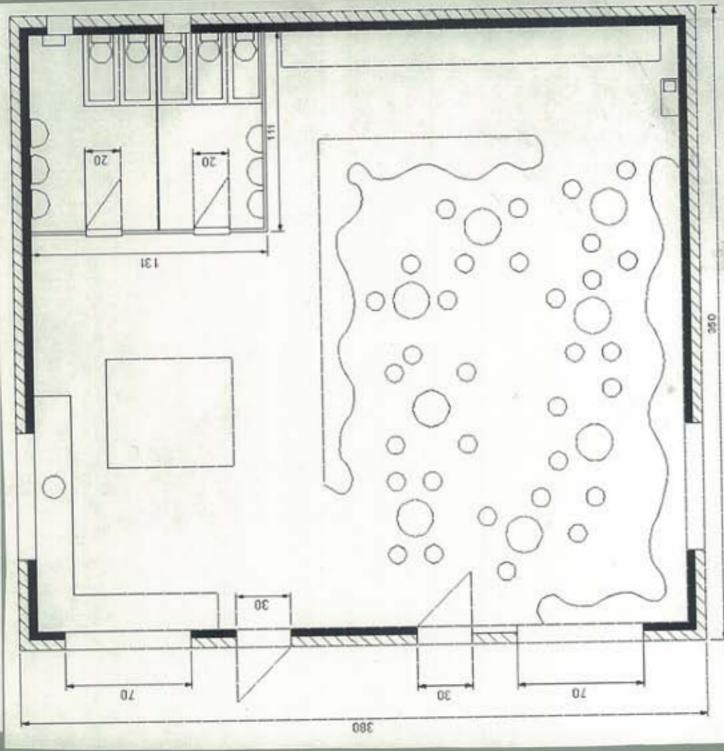
Stantes A glass door well go in door honder. Blass well to keep be the sound of the wall out a in the model will be a small rectangle land teep of the two well be made from maple row Fulung calbunus Per storage up more space that way dest wu be basic and to the ut dues The desk will to keep with the theme Desk and chauf painted conner to make the best unndews, houever Shelves for storage the cost olour Carga The

buy the chart will be a betterone as the H.O Skith will so in it 177035 of the day. and four pueces of docu

OR PLANS AND MEASUREME

and placing function to scole the stains, Just the pur en tre unionge 330 place. The unages are Thus inside which harr 0510 8 G corners docrs 5 neto me Curcas

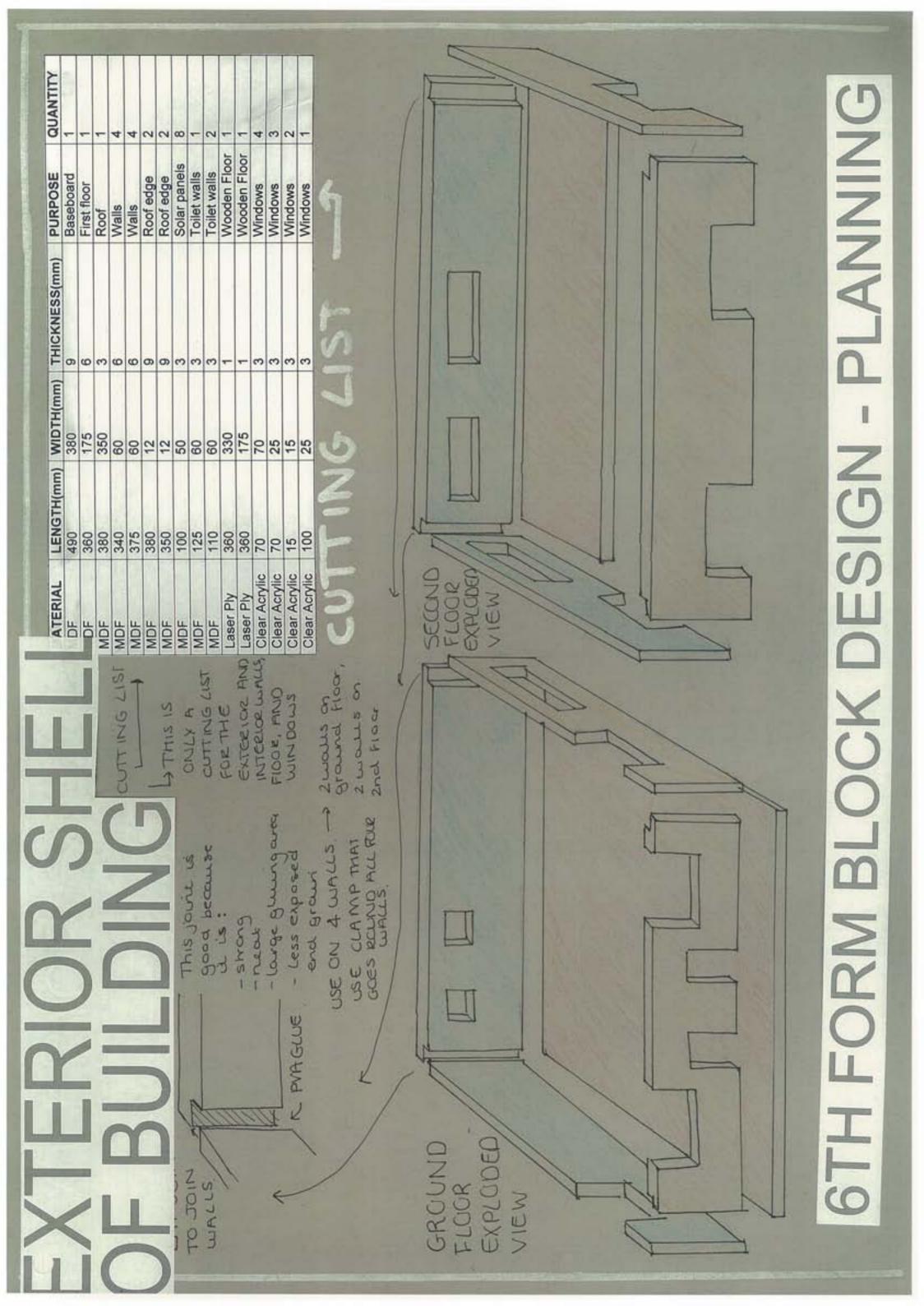




exactly onto one enat making Pets BOBBO thus 2000 Floor plean of S

PERSPECTIVE DRAWING - Real and managed Learner Fabric on the soras , maple wood froung - UPVC LOCKERS Tables + chaus - ABS Maple wood shelver Black marble cuppounds Maple wood 0 0 ONE PO

M BLOCK DESIGN - PLANNING



Material Laser ply	Stairs (Each step was made from laser ply) Floorboards for both levels Shelves for storage room	Strong and stable due to the alternating grain Can be painted easily Cost effective Does not warp or distort Smooth surface finish Wide uses	Why has it been chosen? I chose laser ply to make the floor boards because it was thin and would have the least impact on the resultant height of the walls. I could also use it in the laser so I could engrave floorboards into it to save me time. I used laser ply for the steps and shelves for the same reason, because it was thin and could be put into the laser for a practise, repeated shape.
MDF	Walls (both outer and inner) Roof and roof edges Baseboard First floor Benches for outdoors Outdoor fence Filing cabinets for offices	Easily veneered or painted Cost effective Comes in many sizes because it is manmade Can be cut easily, and due to it being manmade prone to warping or splitting.	I chose MDF for the outer walls because it was cheap, and came in a range of thicknesses for inner and outer walls, It was also easy to handle, and has the best surface for painting. I used it for all the outside pieces of the building for the same reason.
Acrylic	Chairs and tables for downstairs Kitchen top Doors (outdoor and indoor) Windows Office walls Computers Computer chairs Tollets Sinks Tollets Lockers Lockers Mezzanine floor banister	Comes in a range of colours Stiff Hard Can be laser cut Durable Scratches easily Splinters easily	I used acrylic for the variety of colours it came in for many different components. It was also useful that it could be cut in the laser cutter as this allowed me to make precise and repeated shapes and cut them out quickly and accurately. I like the finish acrylic gives in a model as well, because it is shiny, although the ease of scratching did make me hesitate before using it.
Plywood	Computer desks Kitchen cabinets	Strong and stable due to the alternating grain Can be painted easily Cost effective Does not warp or distort Smooth surface finish Wide uses	I used ply wood because of its strength mainly. I liked the grain in the particular piece of plywood that I found. It made the kitchen cabinets look real as well, which is why I chose it for them.
Dowel	Computer desk legs Shelves for storage room Outdoor door handles Outdoor bench legs	Thin Comes in range of thicknesses Easy to paint Easy to cut	I chose dowel to do the legs of tables, benches and shelves because it is already the right shape to use and they are easy to cut to the same length.
Thin card	Stair case banister Sink for kitchen	Flexible Easy to cut and make holes in Comes in a range of colours Smooth finish – easily painted on	I chose thin card to make the banister because I needed a material that could bend easily and be cut easily. I needed to put holes in it, and card is more sturdy than paper yet still as flexible.
Cotton	Upholster sofas	Comes in a range of colours	I chose cotton because it came in the colour that I needed. It also allowed me to use fabric glue.
Copper rod	Tap for sink	Corrosion resistant	I used a copper rod because it was the easiest to keep bent in shape and look like a metal tap.
Expanded polystyrene/Styrofoam	Sofa shapes	Buoyant Lightweight Good insulator Can be cut easily Crumbles and breaks Melts easily	I used expanded polystyrene for the sofa shapes because of its light weight and ease of shaping in a curvy way, which I needed for the design of my sofas. Although the finish of it isn't good, I knew I was going to be covering it with fabric anyway so it didn't matter.
Mirrored acrylic	Toilet mirrors	Stiff Hard Can be laser cut Durable Scratches easily Splinters easily	I used mirrored acrylic because it is hard and durable, and can be used with a hot glue gun. I needed a mirrored effect, and this was the only material available which had a proper mirror effect.

M BLOCK DESIGN - MATERIAL SELECTION 6TH FOR

Time	1 hour	45 minutes	1 hour	30 minutes	10 minutes	20 minutes	20 minutes	10 minutes	45 minutes
Activity	Cut out walls including holes for windows and doors and cuts through the walls that can be lifted off each other, baseboard, floor and roof.	Make lap joints in walls and stick the walls together and to the floors where appropriate.	Put brick paper on all the outsides of the walls.	Make edges and solar panels for roof	Glue roof together and stick to the tops of the appropriate walls.	Paint inner walls	Make wooden flooring and stick down	Cut out shapes of sofas	Put material onto sofas and stick them down.
Tools	Band saw Sandpaper MDF	Router PVA Glue Sand paper	Brick paper Scissors Stanley Knife Cutting mat PVA Glue	Protractor Band saw Sand paper Paint	PVA Glue	Paint brush	Laser cutter Computer Bands aw Sandpaper PVA Glue	Band saw Sand paper PVA Glue	Scissors PVA Glue Hot Glue gun
Sofety and	Always wear goggles and an apron when using the band saw, and check the area is clear of other people before turning it on. Beware of long hair or clothing getting stuck in the machine, and be careful when putting fingers near the blade.	Always wear goggles and an apron when using the router, and check the area is clear of other people before turning it on. Beware of long hair or clothing getting stuck in the machine, and be careful when putting fingers near the router bit.	When using the Stanley life make sure the cutting mat is underneath and keep your fingers out of its path, as well as anyone else's fingers. When done using the knife always retract it to make it safe for others when they need to use it.	Always wear goggles and an apron when using the band saw, and check the area is clear of other people before turning it on. Beware of long hair or clothing getting stuck in the machine, and be careful when putting fingers near the blade. When using the paint ensure it does not get into your mouth and eyes, and always wear and apron and lay down newspaper so as not to get paint on anything or anyone else.	Make sure to wear an apron when using the glue. Ensure that it does not get into your mouth or eyes and is not inhaled as this can cause health problems.	When using the paint ensure it does not get into your mouth and eyes, and always wear and apron and lay down newspaper so as not to get paint on anything or anyone else.	Make sure the lid of the laser cutter is shut when in use to protect mine and others eyes from the laser, and from the potentially poisonous gases being release. Also have the extractor fan on to try and get rid of these gases.	Always wear goggles and an apron when using the band saw, and check the area is clear of other people before turning it on. Beware of long hair or clothing getting stuck in the machine, and be careful when putting fingers near the blade.	When using the hot glue gun, be careful not to touch the glue until it has dried, or the tip of the gun to avoid burning skin. Leave it in the correct position when not in use, to make sure no one else burns themselves by accident.
Contral	Make sure the cuts are smooth and sanded down properly, with no sharp edges or splinters of wood sticking out. Make sure they are the correct size.	Make sure the joint is smooth and no parts of the walls stick out, and that they are glued together and clamped so that they are perpendicular and secure.	Make the sure the brick paper is cut to the exact right size of each wall, and that the edges of it are not tatty. Make sure it is glued down properly and any excess glue is wiped away.	Make sure the angles of the edges of the roof are right so it makes a perfect 90 degree joint. Make sure when painting there are no brush strokes to be seen so it dries smooth with out any blemishes.	Make sure there is no excess glue leaking out when gluing together, and make sure the glue is spread thoroughly in an even layer so that it sticks down properly.	Make sure when painting there are no brush strokes to be seen so it dries smooth with out any blemishes.	Make sure the laser has only engraved the material so that it looks effective as a wooden floor. Make sure it is glued down properly and fits in the room.	Make sure the curves of the sofa are smooth to match the design and are glued together securely.	Ensure the material is stuck properly down to the sofa shapes and that the joins in the fabric are not visible on the surfaces that will be seen.

ORM BLOCK DESIGN - SCHEDULE 6TH F

Time	20 minutes	45 minutes	20 minutes	10 minutes	20 minutes	1 hour	30 minutes	5 minutes	30 minutes
Activity	Cut out legs and surfaces of the tables and chairs	Stick table and chair components together and stick down in place.	Cut out kitchen unit surface and drill and hole in it for the sink.	Make the kitchen units	Cut out parts for lockers and stick together and stick down.	Cut out components For sinks, toilets, urinal and cubicles	Stick together and stick down the toilet components.	Make mirrors for tollets	Make desk tops
Tools	Laser cutter Computer	Tensol cement Hot Glue gun	Band saw, pillar drill, pilers, glue gun, paper	Band saw Glue gun Paint Sand paper	Laser cutter, Computer, Tensol cement, hot glue gun	Laser cutter Computer	Tensol cement Hot glue gun	Band saw Disc sander Hot glue gun	Band saw Disc sander
Safety Safety	Make sure the lid of the laser cutter is shut when in use to protect mine and others eyes from the laser, and from the poisonous gases being release. Also have the extractor fan on to try and get rid of these gases.	When using the hot glue gun, be careful not to touch the glue until it has dried, or the tip of the gun to avoid burning skin. Leave it in the correct position when not in use, to make sure no one else burns themselves by accident. Make sure the Tensol cement does not get onto the skin as it will cause irritation; use a piece of long dowel to apply the adhesive.	When using the pillar drill always wear goggles and have the safety guard down before starting to drill. Clamp the material down to stop it moving, or getting caught in the drill and hitting you or anyone else nearby. Make sure only you are in the area round the pillar drill when turning it on.	Always wear goggles and an apron when using the band saw, and check the area is clear of other people before turning it on. Beware of long hair or clothing getting stuck in the machine, and be careful when putting fingers near the blade. When using the paint ensure it does not get into your mouth and eyes, and always wear and apron and lay down newspaper so as not to get paint on anything or anyone else.	When using the hot glue gun, be careful not to touch the glue until it has dried, or the tip of the gun to avoid burning skin. Leave it in the correct position when not in use, to make sure no one else burns themselves by accident. Make sure the Tensol cement does not get onto the skin as it will cause irritation	Make sure the lid of the laser cutter is shut when in use to protect mine and others eyes from the laser, and from the potentially poisonous gases being release. Also have the extractor fan on to try and get rid of these gases.	When using the hot glue gun, be careful not to touch the glue until it has dried, or the tip of the gun to avoid burning skin. Leave it in the correct position when not in use, to make sure no one else burns themselves by accident. Make sure the Tensol cement does not get onto the skin as it will cause irritation.	When using the hot glue gun, be careful not to touch the glue until it has dried, or the tip of the gun to avoid burning skin. Always wear goggles and an apron when using the band saw, and check the area is clear of other people before turning it on.	Always wear goggles and an apron when using the band saw, and check the area is clear of other people before turning it on. Beware of long hair or clothing getting stuck in the machine, and be careful when putting fingers near the blade. Do not put your fingers near the sander when turned on.
Control	Make sure the legs fit together securely and hold up the tops of the tables and chairs, and make sure they look in proportion.	Make sure the Tensol cement does not get onto the surface of the acrylic as it will melt it. Make sure no blobs of glue gun glue are visible once stuck down.	Make sure the Hole for the sink is the right size in proportion with the size of the units and that the edges of the surface are neat.	Make sure the fridge is painted on neatly and no whit paint gets anywhere else on the wood. Make sure the units are a consistent height and the grain of the wood I the right way.	Make sure the Tensol cement does not get onto the surface of the acrylic as it will melt it. Make sure no blobs of glue gun glue are visible once stuck down.	Make sure the laser has cut all the way through the material before moving it out of place in the laser cutter.	Make sure the Tensol cement does not get onto the surface of the acrylic as it will melt it. Make sure no blobs of glue gun glue are visible once stuck down.	Mae sure the edges of the mirrors are straight and that there are no scratches on them – do not take the protective plastic off until the end.	Make sure all the tops are the same size, and have smooth edges.

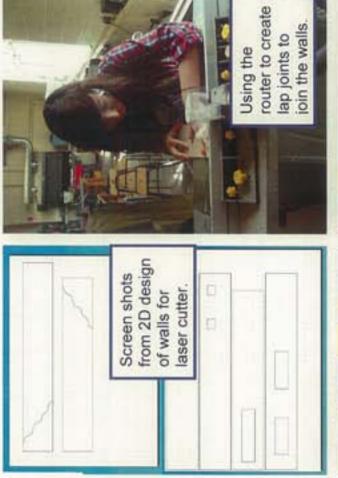
ORM BLOCK DESIGN - SCHEDULE 6TH F

Time	30 minutes	30 minutes	30 minutes	10 minules	ZO minules	30 minutes	ZO minutes
Activity	Make 4 legs for each desk top ad glue them on, then glue the tables down.	Cut out components for the computer chairs and stick together and down.	Cut out components for the computers and stick together and down.	Make banister and stick on.	Cut out parts for shelves, stick together, pant and stick down.	Cut out parts for filing cabinets, stick together, paint and stick down.	Cut out windows and stick in.
Tools	Band saw Hot glue gun	Laser cutter, computer, hot glue gun, Tensol cement.	Laser cutter, computer, hot glue gun, Tensol cement.	Laser cutter Computer Hot glue gun	Band saw Paint Hot glue gun	Band saw Paint Hot glue gun	Laser cutter, computer Hot glue gun
Safaty Safaty	Always wear goggles and an apron when using the band saw, and check the area is clear of other people before turning it on. Beware of long hair or clothing getting stuck in the machine, and be careful when putting fingers near the blade. When using the hot glue gun, be careful not to touch the glue until it has dried, or the tip of the gun to avoid burning skin.	Make sure the Tensol cement does not get onto the skin as it will cause irritation; use a piece of long dowel to apply the adhesive. Make sure the lid of the laser cutter is shut when in use to protect mine and others eyes from the laser, and from the potentially poisonous gases being release. Also have the extractor fan on to try and gases.	Make sure the Tensol cement does not get onto the skin as it will cause irritation; use a piece of long dowel to apply the adhesive. Make sure the lid of the laser cutter is shut when in use to protect mine and others eyes from the laser, and from the potentially poisonous gases being release. Also have the extractor fan on to try and get rid of these	When using the hot glue gun, be careful not to touch the glue until it has dried, or the tip of the gun to avoid burning skin. Leave it in the correct position when not in use, to make sure no one else burns themselves by accident. Make sure the lid of the laser cutter is shut when in use to protect mine and others eyes from the laser, and from the potentially poisonous gases being release. Also have the extractor fan on to try and get rid of these gases.	When using the hot glue gun, be careful not to touch the glue until it has dried, or the tip of the gun to avoid burning skin. Leave it in the correct position when not in use, to make sure no one else burns themselves by accident. Always wear goggles and an apron when using the band saw, and check the area is clear of other people before turning it on. Beware of long hair or clothing getting stuck in the machine, and be careful when putting fingers near the blade.	When using the hot glue gun, be careful not to touch the glue until it has dried, or the tip of the gun to avoid burning skin. Leave it in the correct position when not in use, to make sure no one else burns themselves by accident. Always wear goggles and an apron when using the band saw, and check the area is clear of other people before turning it on. Beware of long hair or clothing getting stuck in the machine, and be careful when putting fingers near the blade.	Make sure the lid of the laser cutter is shut when in use to protect mine and others eyes from the laser, and from the potentially poisonous gases being release. Also have the extractor fan on to try and get rid of these gases. When using the hot glue gun, be careful not to touch the glue until it has dried, or the tip of the gun to avoid burning skin. Leave it in the correct position when not in use, to make sure no one else burns themselves by accident.
Control	Make sure the legs are stuck on straight so the desks all stand up properly. Make sure no blobs of glue gun are visible.	Make sure the laser has cut all the way through the material, and not to get any of the glue on a visible surface as it will reduce the quality of the finish	Make sure the laser has cut all the way through the material, and not to get any of the glue on a visible surface as it will reduce the quality of the finish	Make sure that the line of glue form the hot glue gun is straight and neat and even, as it will be visible through the clear acrylic.	Make sure there are no brush strokes visible form the paint, and that there are no blobs of glue gun to be seen.	Make sure there are no brush strokes visible form the paint, and that there are no blobs of glue gun to be seen.	Make sure the laser has cut all the way through the material before moving it, and that it fits into the window frames properly, and make sure there are no visible blobs of glue gun glue.

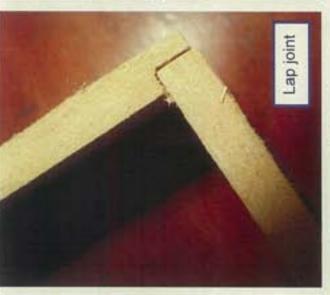
ORM BLOCK DESIGN - SCHEDULE 6TH F

Time	30 minutes	30 minutes	20 minutes	20 minutes	30 minutes	10 minutes	5 minutes
Activity	Cut out window frames and stick in	Make all the doors and stick them into place, some open, some shut	Make the steps for the stairs	Stick steps to central pole	Cut out and make holes in banister	Paint banister and stick to the stairs.	Glue stairs into place on bottom floor.
Tools	Laser cutter, computer Spray mount	Band saw Hot glue gun	Band saw	Hot glue gun	Scissors Compass Blue tack	Hot glue gun Paint Paint brush	Hot glue gun
Sefety and	Make sure the lid of the laser cutter is shut when in use to protect mine and others eyes from the laser, and from the potentially poisonous gases being release. Also have the extractor fan on to try and get rid of these gases. Make sure to use spray mount in an open, well ventilated room and not close to anyone else. Try not to inhale much of it.	Always wear goggles and an apron when using the band saw, and check the area is clear of other people before turning it on. Beware of long hair or clothing getting stuck in the machine, and be careful when putting fingers near the blade. When using the hot glue gun, be careful not to touch the glue until it has dried, or the tip of the gun to avoid burning skin. Leave it in the correct position when not in use, to make sure no one else burns themselves by accident.	Always wear goggles and an apron when using the band saw, and check the area is clear of other people before turning it on. Beware of long hair or clothing getting stuck in the machine, and be careful when putting fingers near the blade.	When using the hot glue gun, be careful not to touch the glue until it has dried, or the tip of the gun to avoid burning skin. Leave it in the correct position when not in use, to make sure no one else burns themselves by accident.	When using the compass to put holes in the banister, make sure the blue tack is behind the material and the compass is out of the way of yours or anyone else's fingers. When using scissors also keep your hands out of the way of the path of the scissors, and carry them point down, and always keep the blades together when not in use.	When using the hot glue gun, be careful not to touch the glue until it has dried, or the tip of the gun to avoid burning skin. Leave it in the correct position when not in use, to make sure no one else burns themselves by accident. Wear an apron when painting and lay down newspaper and keep the paint brush away from anyone so as to not get the paint on anything.	When using the hot glue gun, be careful not to touch the glue until it has dried, or the tip of the gun to avoid burning skin. Leave it in the correct position when not in use, to make sure no one else burns themselves by accident.
Confrof	Make sure the frames are stuck on securely to the building, and straight, covering the edges of the windows and brick paper.	Make sure there are no blobs of glue gun glue visible, and make sure the edges of all the doors are straight and fit snugly into the frames.	Make sure all the steps are exactly the same size, and the grain of the wood goes the same way on each of them.	Make sure the stairs are the same height apart and sweep round the pole in even gaps, so there are no big jumps or some steps with hardly and space on them.	Make sure the line cut by the scissors is straight and neat, and the holes are in regular intervals.	Make sure there are no visible brush strokes, and no visible blobs of glue gun glue. Make sure the banister is stuck on so that it forms a smooth curve up the stairs and is at the same point on each step.	Make sure there are no obvious blobs of glue gun glue. Make sure that the stairs reach and touch the designated space on the first floor, but do not catch on it when it is removed.

ORM BLOCK DESIGN - SCHEDULE 6TH F











with lap joints.

Complete.

Bottom floor put together



floor and sections Complete ground

saw to cut out

shapes in

MDF.

Using band

of second floor

walls.

when roof is taken off.

What the shell of the model will look like







from 2D design

of windows.

Screen shots



Ground floor painted, stuck to base board

and covered with

brick paper.



















acrylic to make doors on the

band saw.

Basic shape of sofas before fabric is added.



interior glass wall

for offices.

Screen shot from 2D design for



from 2D design

for window frames

Screen shot



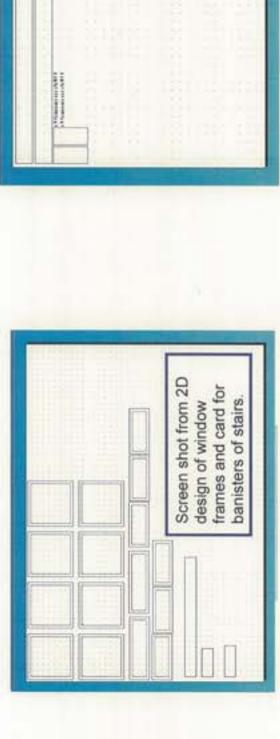


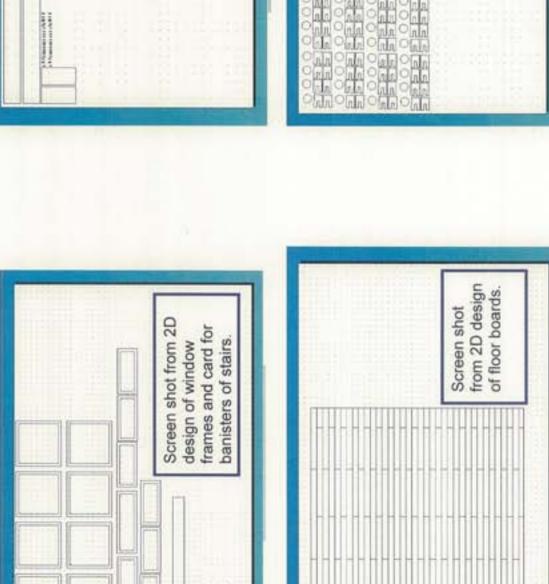


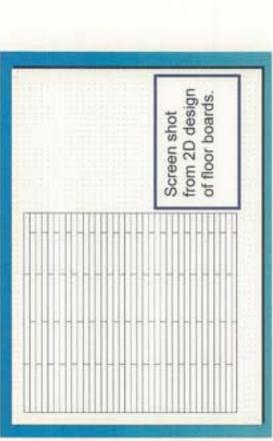




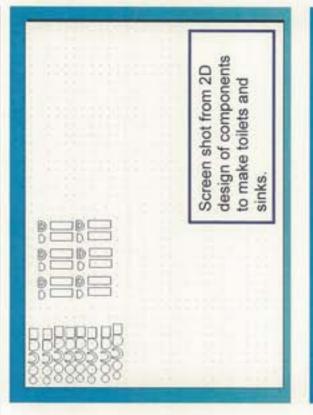
RM BLOCK DESIGN - MAKING









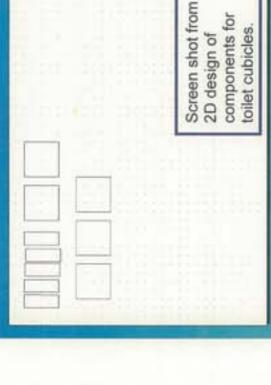


from 2D design

Screen shot

of blue parts of

lockers.



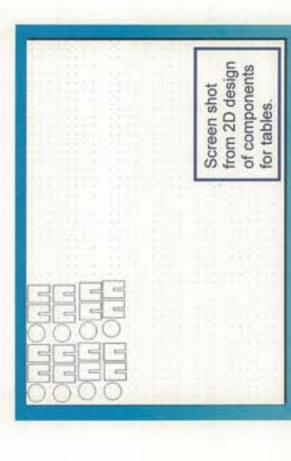
from 2D design

Screen shot

of components

for chairs.





OCK DESIGN - MAKING

The 6th form block must fit	To test this specification point I will	From the results of the test I found that the	Evidence
ito the space allocated into re school and cannot get any bigger.	measure the model and use the scale to work what size it would be in real life. This is to find out if the building is the right size and would fit into the school when built.	design fitted perfectly into the space, as I measured the space form the beginning and did my designs aroud that. It uses all of the space available, and makes the most of it, and therefore meets my specification.	
2. The 6th form block must have enough space for around 200 students plus space for 6 members of staff to register and 2 members of staff to have a base.	To test this specification point I will create a scale model of a person and see how well it fits into the block, and how may of them would realistically fit in. this is to see from my model a true perspective of how people would fit in rather than just looking at it and guessing.	From this test I have found that there will be plenty of room for that many students, as long as they are spread about and not all needing to use the same area at once. So aslong as that doesn't happen, it meets my specification.	
3. The 6 th form block must look modern. With this it must use a modern colour scheme that's young and contemporary with modern materials to go with it.	To test this specification point I will ask my client and a 6th former what they think to the look of design, and whether they think it is modern in there opinion or not. As they will be the ones who are using it, this will be the best way of testing this point.	Client – I think that it looks very modern, the technology included is great and I think the stairs, the glass banister on the mezzanine floor, th curvy sofa and way the seating is arranged all make it a modern design. 6th former – I think that the design is very modern. Everything about it, the light colours, the use of wood, glass and metal together makes it feel like avery modern space.	
4. The 6th form block must feel light and airy, not dark and dingy. There must be plenty of natural light in the room.	To test this specification point I will put the lid on the model and see how much light gets in through the windows. This is to see in real life how much light would get in, but I have to take into account because it is a small model and the windows are small, this may affect the results.	Not much light seemed to get in when I did this test, looking through the windows it seemed to be quite dark, which means I failed ot meet this specification point, however I feel in life size with the size of the windows, there will actually be a great dal of natural light, so meets my specification.	
5. The 6t form block must have two floors for more space, to allow the 6th form to expand.	To test this specification point I will count the number of floors. If there are two, then it will meet the specification point, and there will be a lot of space for everyone.	There are two floors, how ever the first floor is only half of one. This is not a problem though, as this is all the space that was required, and therefore space is not wasted. However because it is only half a floor, it does not fully meet my specification.	
6. The 6th form block must have a feature in it.	To test this specification point I will ask both a 6th former and a client if they can identify a feature in this design. This is to see if there is an obvious feature, and if they cannot find one, even if I, the designer think there is one, the design will have not met the specification point.	Client – The feature is clearly he stair case, which is a quirky shape and made of modern materials, however I think that the glass banister on the mezzanine floor could also be part of that feature. 6 th former – I think the most feature-like thing in this design is the stair case because it is different and unique. Overall it meets my specification.	

6TH FORM BLOCK DESIGN - TESTING

needed to run it. As well as Sustainable they are. This is to see now proportion of the blocks energy, wood has

ORM BLOCK DESIGN - TESTING 6TH F

EVALUATION

Over all i am very happy with how this project has gone. My final design has come out exactly the way i wanted it to, and the model looks really good. The design fit exactly into the space elaxing space downstairs to make it easier for the disturbed by anyone and first floor walls. As a feature, I feel that the as it allows students to go up and down it at the allocated, meaning it is a feasable design to be pitched to the board of governers (which is part of imited amount of space it manages to create eye on those students who are doing work to make sure that they aren't getting distracted. In the my 2D element). Within this, although there was a enough space for everyone in the 6thform incuding staff) to use it, using a mezzanine first floor covering half the ground floor area as a alking. As well as this, the teachers can keep an teachers offices, which they now have two of their rooms through 4 large windows which cover both the ground floor staircase is good as it looks great and it's a good a larger, more open students to relax, yet seperates the two areas from each other so that people who want to work can instead of the orignial one, they have a lot of windows and the glass wall (which enables them to wathc the students). As well as in the offices, the whole block gets plenty of natural light in it with is also very functional, steps, yet is same time as it has wide interesting and unique shape. to create natural light getting into focal point in the room, but concentrate and not get working space,

As a student I feel that the sixth form block would be very easy to use and that everyone would like the modern, sleek design of it.

CLIENT OPINION

"I really like the design for the 6th form block. I feel that in terms of function, it could easily be built and on the project since the beginning, this has enabled as possible. I think that as a teacher, being able to seperate room is a useful addition. I also am pleased seperate from the relaxing/social area as it will allow My only worry with this would be that the entire of the downstairs is purely for relaxing, and maybe this way the tables and chairs are arranged downstairs would allow for students to do work on thems during used. I like the fact that I have been able to add input me to tune the design so it would be as appropriate watch the students work, yet be in an entirely that there is a great deal of designated work space would discourage students from coming upstiars and working, and there would be no way for me to check on this as I would be situated upstiars. However the students to get on with their work without distraction. their free periods, but also relax if they want to."



MODIFICATIONS

Whilst making my model, I found that i needed to make quite a few changes to the design in order for it to work as intended.

For the staircase, I had originally planned for the steps to be made out of maple wood and the banister to be clear acrylic wrapped round (I had planned to soften the plastic in an oven and let it cool in a curved shape) however I found that this would not be possible as it would not bend the way I wanted it to, so I had to compromise and change it to an aluminium banister with holes in all the way up to keep the light coming in on the stairs. I did this by spray painting card silver, putting holes in it and bending it up the curve of the stairs.

Whilst i planned on making a pillar to hold up the middle of the mezzanine floor level, when i made it i found that the toilets went far enough acorss to support it sufficiently, and that plus the steel bean that would be going all the way across the edge of the mezzanine level, holding it up, would be enough

support.

I also had origninally planned to have laminate flooring a similar, but lighter colour to the walls, which is commonly found in schools. However, this was difficult to find and model, so i decided a wooden floor would be better in terms of modelling and for the actual design as it looks more proffessional and like a lot more money has been





6TH FORM BLOCK DESIGN - EVALUATION AND MODIFICATIONS

I am going to do a life cycle assessment on my sixth form block design; with what it would be a real life rather than my model. This will give a clear picture of what effect it would have on the environment if built, and whether it could be classed as a sustainable building.

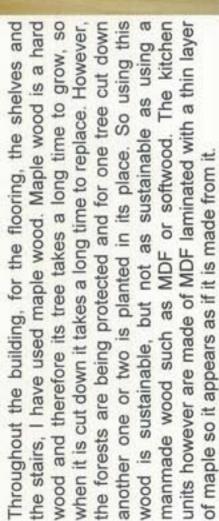
SUSTAINABLE MATERIALS

For the lockers, uPVC would be used, a type of thermoplastic with useful properties. As a thermoplastic, it can be recycled by being melted down, however this is expensive and not a widely done thing at the moment, and mot things made from this just end up on the landfill, where it is not biodegradable so will just sit there forever. However, it has very good properties, and these outweighed the fact that it wasn't very sustainable, so I decided to use it.



I also used ABS seating area, as is also a thermopuevo, so is unfor

I also used ABS for the tables and chairs in the downstairs seating area, as well as the upstairs computer chairs. ABS is also a thermoplastic, and the same applies for it as for uPVC, so is unfortunately not very sustainable.





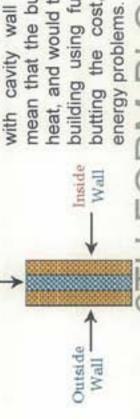
The way the building would be built, with the outer layer of bricks and an inner lay of bricks, with cavity wall insulation in between, would mean that the building would not lose as much heat, and would therefore not require heating the building using fuel as much. This, as well as butting the cost, is a sustainable solution to

SUSTAINABLE ENERGY SOURCES



When i first carried out my research into sustainability, i decided that adding a solar panel (photovoltaic cell) or a small sized wind turbine would be a good way of making the design sustainble, as they would provide an alternative, clean energy source to the building. In my final design i decided that the roof would be flat, so using solar panels made the most sense to use as i had a large, flat, unusable surface. Therefore, i designed it to fit 8 large photovoltaic cells ontop of the roof, to provide as much energy as possible for the 6th form block. Hopefully it will produce all the power needed, but on days where it doesnt (due to adverse weather conditions) it can use the regular school supply, and on days where it over produces some can be transferred to be used in the rest of the school. There will not be the problem of it being dark at inght time, becasue the school is only rarely used in the night.

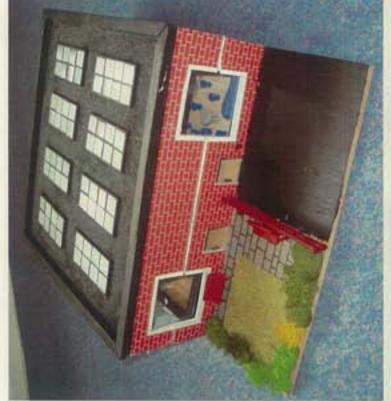
Over all, in terms of materials, my design is not sustainble. This is primarily due to the use of plastic which is arguably hard to recycle, and does not biodegrade, and takes a lot of energy and involves releasing a lot of harmfull toxins into the atmosphere and environment to make. The use of a lot of hard wood is also not sustianble because it involves cutting down the rainforests when we need them most, spoiling habitats and putting animals existances in danger. However, in terms of alternative energy supplies and consrving nergy by using an energy smart design, it is very sustainble.



Cavity Wall Insulation RM BLOCK DESIGN - LIFE CYCLE ASSESSMENT

BLOCK DESIGN - FINISHED MODEL

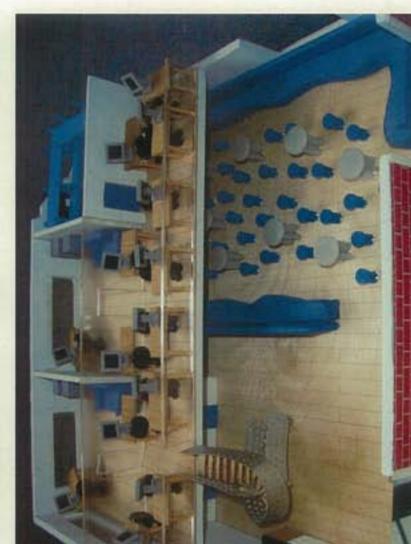


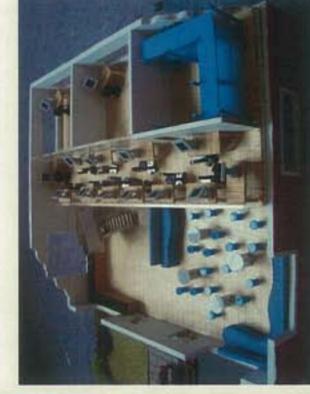






BLOCK DESIGN - FINISHED MODE















2D Specification

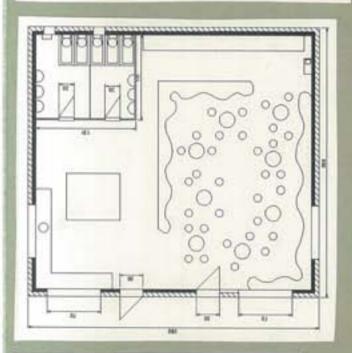
- The presentation board must look attractive.
- The amount of text on the board must be minimal so it is not clogged up.
 The board must include all the drawings required to show off the design.

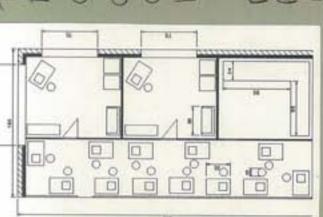
Function

 The presentation board must show off the 6th form block in a way that will persuade the board of governors for the school to chose it, so it will be chosen to be made.

User requirements

- The presentation board must be easy to read and understand so that my final idea looks clear.
 - The font on the presentation board must be a good size that can be read from quite a distance away from the actual board.





The pictures that must be undered are the cores on this page. As 30 drowing of both flows and a floor plan with bosic measurements

Below are dufferent colous for one whe of the proportation board.

Branston Sixth Form Branston Sixth Form

Branston Sixth Form

Branston Sixth Form

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Above our possuble ferris to 15% for of the texts No 1 is too sumple, No 2 is just not ingoit, No 3 is too chuldust, No 4 is good, No 5 is too informat, and I do not ween to ho 5 is too informat, and I do not ween to

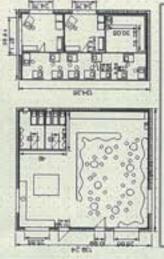
Branston Sixth Form Branston Sixth Form Branston Sixth Form

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Branston Sixth Form

6. Colour in boild and Italice, I have

M BLOCK DESIGN - 2D ELEMENT 6TH FC

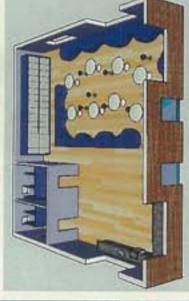
BRANSTON SIXTH FORM BLOCK DESIGN



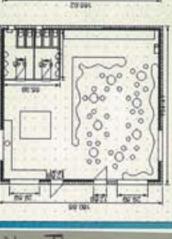
This south form block is a sleek, unique, modern design. Whilst being completely functional it is also very stylish.

allows a nice view over to the students relaxing below. It From the original soch form block, it has been extended the design is thoroughly carry out work on, and teachers can get away from the interesting design. The most is made of natural light to sustainable in that it is powered by solar panels placed rosse of the students on the ground floor. The balcony upwards with a misszanine floor which students can has a feature stantase to make it an architecturally cut down on energy use, and

Can see the larels are in a column na ute u kcaux is all blackand clearly as trul of the building Deciment you the nant half with ord is Haweer I do and barng. Thus design looks dult 15 good Design 1



BRANSTON SIXTH FORM BLOCK DESIGN



th term block is a seek, modern, unlique.

Whilst being completely functional it is also yield. From the original sixth term blocks, it has its need upon its with a metranine door level, as the educe stall case, which as well as being in a feature stall case, which as well as being in a schildclumby interesting. The most is of natural light to cut down on energy use, and sign is quit such inable in that it is powered by



Derellonent

Like this design

Design 2

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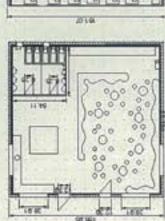
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upwards with a mezzanine floar which students can carry out work on, and teachers can get away from the noise of the students on the ground floar. The balcomy allows a nice view over to the students relaxed below. It mere and design. The most is made of natural light to cut down on energy use, and. The design is thoroughly sudamable in that it is powered by solar panels placed on the sool. This such form block is a steel, unique, modern design. Whilst being completely functional it is also very sylicit. From the original such form block, it has been extended has a feature stancase to make it an architecturally



RM BLOCK DESIGN - 2D ELEMENT

ELEMENT RM BLOCK DESIGN - 2D







