How to be Successful -A-Level Design.

Design subject lead - Mr C Wright.

COURSE CONTENT:

This will be a two year course comprising of - 60% PERSONAL INVESTIGATION & 40% EXAM SET QUESTION.

• **Year 1** is built up o f **three** skill building projects. We look at researching into, designing and making products based around - Alessi, design movements and biomimicry.

ALESSI





• Year 2 – Personal Investigation

This will contribute to 60% of your final overall grade.

- You will decide on the starting point to the project and what you would like to research into and design.
- This will be a 'major project' and will take you from the end of year 12 to January of year 13.
- You will use all of the skills built up in Yr12 to complete the project.
- You will need to demonstrate a full understanding of the 4 assessment objectives within the project.

Overview Anthropometrics is the practice of taking measurements of the human bady and revider catemarical data that can be used be derivers. Measuring for height.

Anthropometrics help desimant collect useful data as head circumfe a cafely helped. Arthro of human compares measurements such as etrength. This is used enters that products. CHIT AS MANY NO

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Anthropometrics

When deciming anothing grouppies and anthorsemptrics need to be taken into account as these are very important in order to get the product that you is would take tions of the reduct that le and a more fortable and

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What makes a cest confortable?

Anthropometric chair measurements

cant / chair chould in confectable and un-restricted for the end ater. number of variables that need to be discussed before creating a chair. ple; the cent height cheuld not be co high to that your logs are left his would mean that there would be pressure on the soft tissues under This areasers interferes with the return of blood from the lower limbs: s course liveling and numbrate in the thinks due to preserve on blood erves. As with this example there are a number of other variables and variations that need to be considered and discussed before developing a final product. This is because if the product is unconfertable to user will want to purchase it or use for what it's worth, as a result it could become redendant. And ideas of day that are not exitable become obsolete ideas of tomorrow.

- The stat depth thenkle allow clearance at the back of your knew in order to prevent pressure on the network of blood vessels and nerves.
- The cost back and angle chould support the natural surves of your spine (in particular year lower back).
- The main meight bearing chasil be taken by the itchial tuberocities (the bong parts of your bottom) and the top half of the thinks.
- In addition, a chair chould enable you to change porture at intervals, ensuring that different groups of muscles can be used for support, and that no particular group of watcher sets Ured. The concensences of poor texting area disconfert, fatime and

Inspirational Ideas from CAD



Ergonomics - Chair Design

Cluster for the cheir.

The centres excenses end / celetion describ yet have a creatife space to ploced as of yet, however later is no development I will add this into my project. This could be in a lowner or even an outdoor colution. Devies Brief

This decise will be attractive, represent and inspired by nature. It will have the ability to function as a creating colution and will be able to cupport the weight of the overage percon.

Decise Factors and Function.

Primary Function - confortable creating cupport

Secondary Function - anothetically pleasing and nature inspired

Manufacture and Durability

Strong form / structure, sheep methods, and derable to last for years of use. Must meet the brief. Representation

This mating solution will suit the environment its placed in Milliot being attractive in its colour and finicher - chauld bak interacting and excite the acer.

Strength and Weight.

The form of this piece should be able to support the weight of the everyon person and shouldn't too heave as it will need to be moved from the workshap into its place of use with ease as collering an injury from maring your derive project is not ideal. As a result come parts was be hallowed out in order to case weight for the overall piece.

Engineers

This piece choose be infra with the vert of the project with the therma of meture and repurposed. Intheory this piece wast include these elements in order to be able to flow with the vest of the project. Safety

This piece choose cafe and adhere to UK cafety standards (for example being visid and being able to take the weight of an average percentets) as well as being made of sustainable materials that mast three standards and overall functionality.

Exponenties and Anthropometrics:

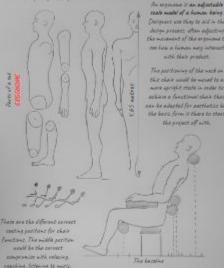
On the right of the page is an expense and example section peritions that I have experimented with I have drawn out the middle centric parties in order to show the main points of a chair, or an example for feture reference of I meeted a reference for my final piece of my investigation. Other Factors of Influence

The materials utilized need to meet the ideal of nature, resurranted and must meet one of these themes within the brief of the final size that will be made. I also need to consider.

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- 23	Gualty	100	Texture	 Charles	122	Carto

EXEMPLAR WORK.

The merane height of a percen has been used here.



notching TV and extine

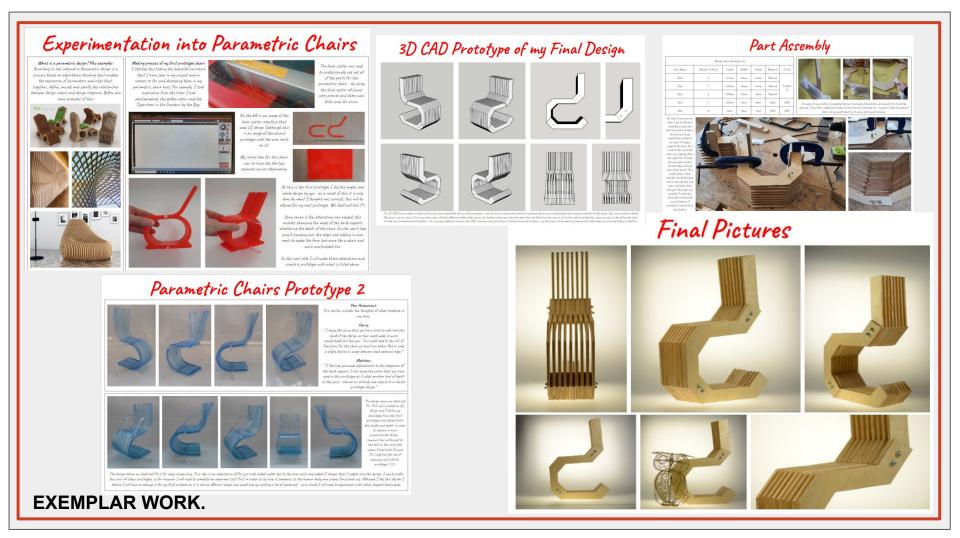
scale model of a human bains. Deciment use they to add in the dation process after adjusting the movement of the organisms to the how a human may interest with they product. The son't oning of the neck on

this choir would be moved to a more upricks state in order to achieve a functional shall that can be adapted for parthetics but the bar's form > there to start the present off with

COMPONENT 2 – Externally Set Assignment

(This makes up 40% of the overall grade)

- You will start by looking into three or four of the externally set briefs from the exam board and mind mapping each one until you have a wide range of starting points to work with.
- You will then produce a similar portfolio to the one previously produced in Year 13 but in a shorter amount of time.
- Use of students time is an absolute key to the success of this element of the course.
- You will have three full days of school at the end of the project to complete all work. (15 hours) I recommend that you plan to finish off making diaries and evaluations for this stage of the project.



How to succeed in A-Level design.

- You really do need to use your time well.
 Keep up to date with all course work elements.
- Do not underestimate how long things take to produce.
- You get a full 9 hours of lessons over 2 weeks, plus you should be spending at least the same again at home working on your coursework.
- Make sure all of the 4 objectives are fully covered in both the personal investigation and the exam set project.

How to succeed in A-Level design.

- Make sure you have a full understanding of the mark scheme and how the projects are marked.
- Time plan, time plan, time plan!!!
- Use your PLC documents to track progress.
- Use 1:1 time with your teacher to plan the next stages for development work.
- Do not bury your head if you feel lost with anything.

