

Knowledge you will gain

What is a grabber?

A mechanical device for clutching, lifting and moving things especially materials in bulk

What is an extension grabber?

A device that provides people with easier access to things they cannot reach. It gives the user a distance advantage. It makes reaching things a lot simpler and more comfortable.

Ergonomics means making the product *fit the user*.

Anthropometric Data are *measurements of humans*

How to write a comprehensive brief using Goal, Context, Constraints and the Criteria

What is a housing joint?

How to write a comprehensive brief:

Goal – What is the aim of the project?

Context – Relevant or useful information that will inform the design

Constraints – Things the design must or must not do

Criteria – Other things that may make your design successful but are not essential

Year 9 Grabber Knowledge Organiser - KS3



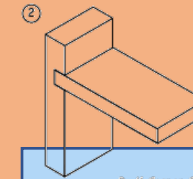
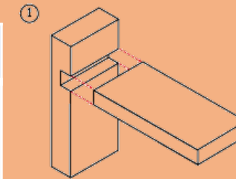
ANTHROPOMETRICS
MEASUREMENTS GATHERED
STATICALLY RECORDED SIZES
AVERAGE MEASUREMENTS DETERMINED



ERGONOMICS
ANTHROPOMETRIC
MEASUREMENTS / STATISTICS
USED IN THE DESIGN OF A
PRODUCT



PRODUCT ERGONOMICALLY DESIGNED
AS A RESULT THE PRODUCT FITS THE
CUSTOMER
E.G.
COMFORTABLE HANDLE
COMFORTABLE CHAIR



Housing Joint

Vocabulary	
Ergonomics	<i>Ergonomics</i> means making the product <i>fit the user</i> .
Anthropometric Data	<i>Anthropometric Data</i> are <i>measurements of humans</i>
Grabber	Mechanical device for clutching, lifting, and moving things especially materials in bulk
Housing joint	Simple cut slot in one piece of wood to increase the gluing area
CAD	Computer aided design (CAD) is the use of computer software to design new products in 3D.
CAM	By using computer aided manufacture (CAM) , designs can be sent to CAM machines such as laser cutters, 3D printers and milling machines.



Helpful tip when designing grabber head: use up as much of the material as you possibly can, and draw a side profile of your chosen item.

To create a device that picks objects up

Previous Knowledge:

- Cutting of wood (Term2)
- Access FM (Term 3)
- Manufactured boards (Term1)

