

# Knowledge Mat: D & T – Year 10

## Key Knowledge for Year 10

### Term 1

- To use Jigs, templates and tolerancing, to assemble a 1:10 scale ergonome.
- To have an understanding of Anthropometrics and Ergonomics,
- To be able to work at scale in CAD.

### Term 2

- To understand different design strategies like user centred design
- To be able to identify what design movements individual designs are from.
- To understand scales of production and the use of KD fittings in flat pack furniture

### Term 3

- To be able to produce Isometric and orthographic drawings of designs
- To be able to research a design problem and to know the difference between primary and secondary research.
- To be able to identify problems that need a solution designing for them.

## Wider Experiences / Try To Do...

- Look for knock-down fittings in flat pack furniture at home.
- Help a parent/guardian to assemble a piece of flat pack furniture.
- Watch an antiques programme and look for Art Nouveau and Art Deco products.

## The **big** questions:

- **What** considerations about people do designers need to take into consideration?
- **How** do designers communicate their ideas to other people?
- **What** changes when a product is made in large quantities,

## Vocabulary

Ergonomics  
Ergonome  
Jigs  
Templates  
Gauges  
Anthropometrics  
Percentile  
Gender  
Mean  
Stature  
Scale  
Tolerance  
Interference  
Bespoke  
Batch production  
Mass production  
Continuous production  
Just In Time (JIT)  
Flat pack  
Knock Down fittings  
Cam lock  
Dowel  
Isometric  
Orthographic  
Construction lines  
Centre line  
User-centred design  
End user  
Primary research  
Secondary research