



Technology

Can you **distinguish** the ergonomic features of a range chair designs and **validate** how ergonomically sound they are?

Introduction to ergonomics & anthropometrics

Ergonomic: Relating to or designed for efficiency and comfort in the working environment. – Oxford English Dictionary

Anthropometric: Relating to the scientific study of the measurements and proportions of the human body.

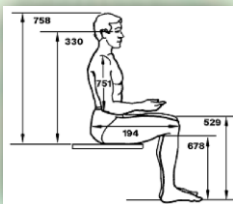


Scan me to watch a video about the benefits of good posture.

The importance of using Anthropometrics when designing.

To enable us to design effectively we need to have some data on the sizes and dimensions of people. We want to be able for our product to fit the majority of people in a population. This data is called 'Anthropometrics'.

It is a scientific study of the measurements of people, we can use these measurements to help us design effective products.



It is important that we consider ergonomics when we are designing items for personal use. This is designing with people in mind.

Higher order thinking

Select one chair that is designed for compact living, shorter period of use and can be folded to be stored. Carry out an in-depth product analysis using ACCESS FM.

Challenges:

1. Find 5 images that demonstrate good ergonomic seating design and 5 for bad or poor ergonomic seating design. Two have been done for you as an example.

Poor ergonomic design



Good ergonomic design



2. Now explain why you have selected each images on both sides. Why are these designs good or poor in relation to ergonomics?



Extension Activity

Have a go at making an **ergonome**. Use the QR code here to find a printable version.



Achievement from this challenge

In carrying out these house challenges you will have demonstrated the skills to build on **core knowledge, investigate, analyse** and **evaluate** how existing seating design considers ergonomic features.