



KEY VOCABULARY

mechanism

component part

Archimedes' screw

pulley

axle

prototype

engineer

a **system of component parts** working together in a **machine**

part of a mechanism

a mechanism which **transports water uphill** which the Greek scientist, Archimedes, wrote about

a mechanism which **helps to lift a load more easily**

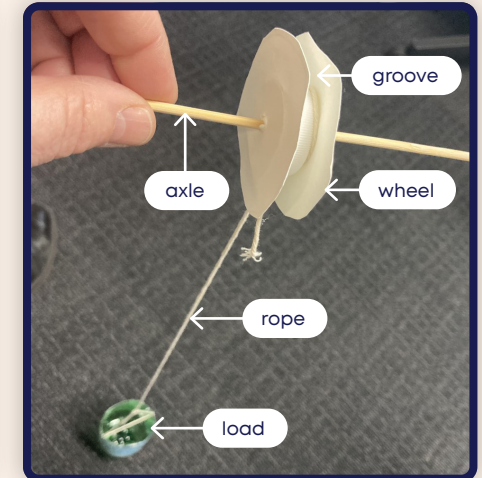
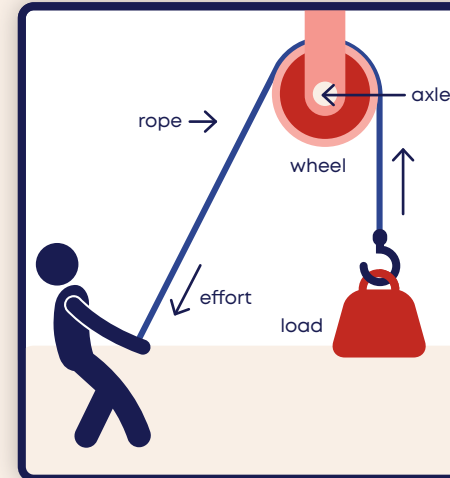
a **rod** that passes through the **centre of a wheel**

a **model** to try out a product – making prototypes can be part of the **design process**

a **person** who is trained to **invent, design, build** and **test** machines, structures and materials

a pulley

the component parts of a pulley are the axle, wheel, groove and rope – everyday examples of pulleys include a well and a weights machine in the gym



example
water wall



design criteria

user
who is the product for?

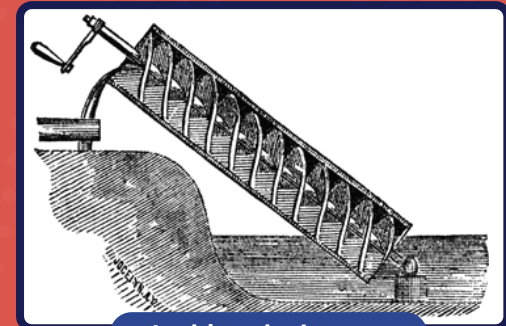
purpose or function
what is the product for?

aesthetic appeal
how is the design of the product pleasing to look at?



Nav Sawhney

an engineer who designed a washing machine which doesn't use electricity



Archimedes' screw