



KEY VOCABULARY

mechanism

component part

gear

axle

drive gear

driven gear

circuit

battery

switch

wire

annotated diagram

exploded diagram

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

part of a mechanism

wheels with 'teeth' around the outside which **interlock** when the wheels are placed next to each other – turning one gear makes the one next to it turn (**motion transfer**)

a **rod** that passes through the **centre of a wheel**, like a gear wheel

the gear which **we turn**

the gear **turned by the drive gear**

a **path** which electricity flows around

a **store** of energy

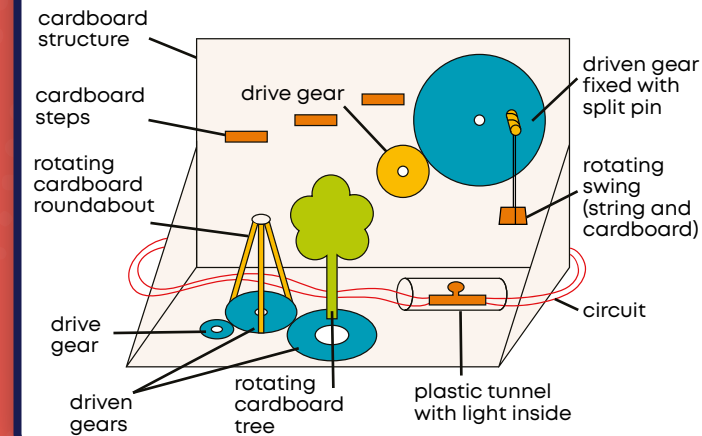
an electrical component that can **open or close an electrical circuit**

a **thin piece of metal** (usually covered in plastic) that allows electricity to flow through it

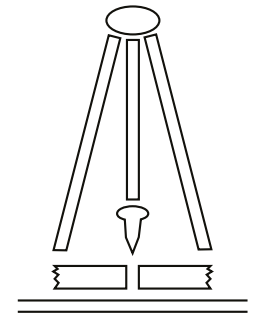
a diagram that includes **labels and explanations** attached to the visual image

a diagram that shows how **component parts** of a mechanism **fit together** or are **assembled**

annotated diagram

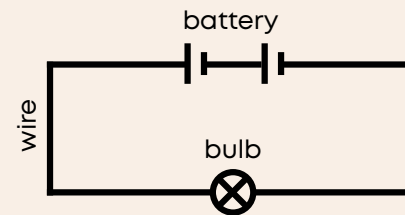


exploded diagram



rotating roundabout

a simple circuit



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?



a can-opener which uses gears



example miniature playground