



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

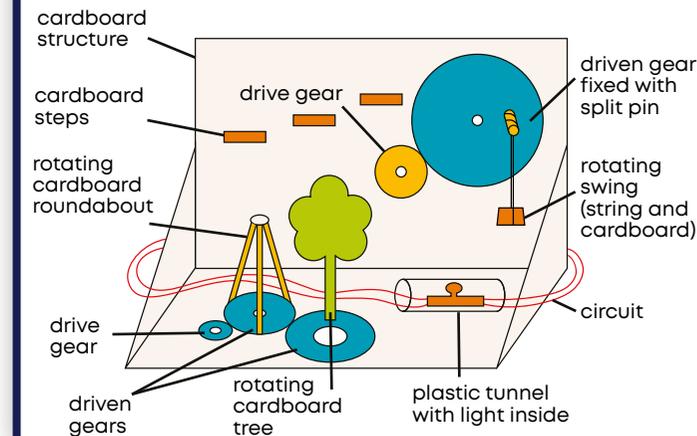
an electrical component that can **open or close an electrical circuit**

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

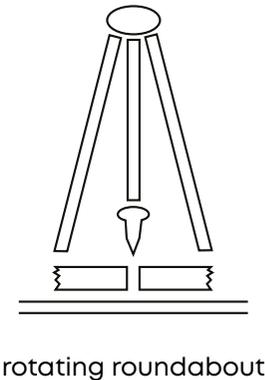
a diagram that includes **labels and explanations** attached to the visual image

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

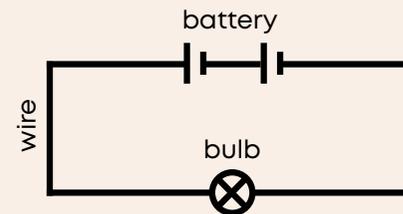
**annotated diagram**



**exploded diagram**



**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