



Words you may know:



**design criteria**

Things that a design must have or do to work well.



**product**

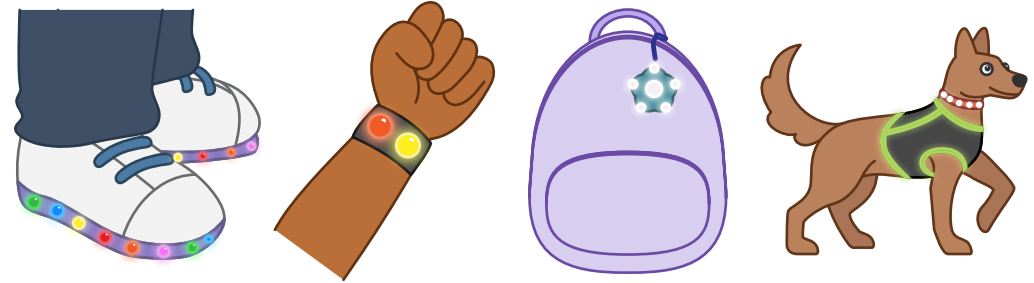
Something that has been made to be used or enjoyed by someone.



**user**

The person a product is made for.

Wearable technology is something that can be worn to help the user or for fun.



**technology**

Something people make to help solve problems or make life easier.



**LEDs** are tiny lights called light-emitting diodes. They do not get very hot when switched on.

**form**

What something looks like, including its shape, size and style.

**function**

What something does or what it is used for.

**form**

A curved helmet shape with rows of green and red LEDs along it.

**Example**



**function**

To make the user easier to see in the dark to keep them safe riding a bike.

**input**

Something done or given to make something else happen.

**output**

What happens because of the input.





program

A set of instructions that a computer follows to do a job.

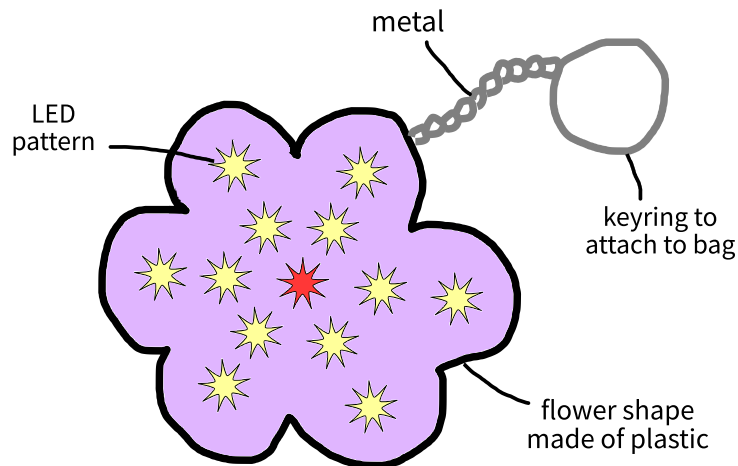
Computer **programs** can **control** products.

control

To make something happen.

computer-aided design (CAD)

CAD is using a computer to draw or plan ideas for a product.



Using CAD to design a product can help it to be successful, which means it works well or does what was planned.

code

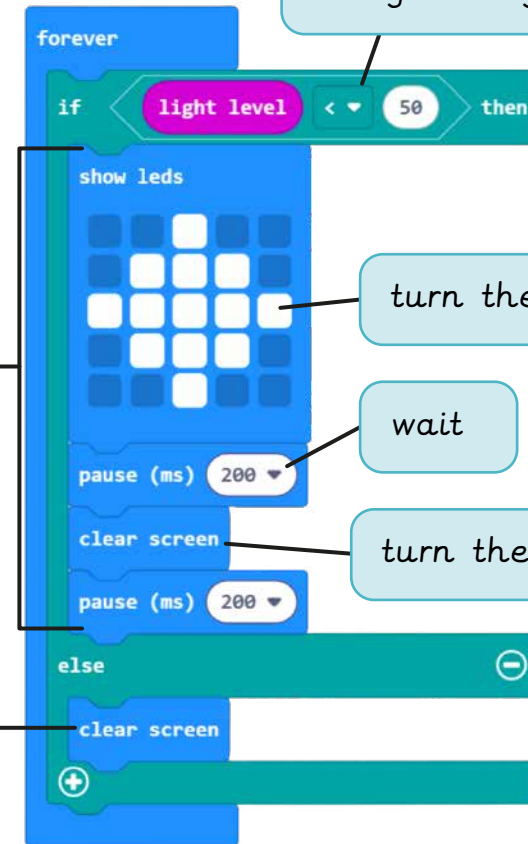
The instructions that tell a computer what to do.

input

using the light sensor

If light is lower than 50, make LEDs flash.

If light is higher than 50, turn LEDs off.



output

flashing LEDs