



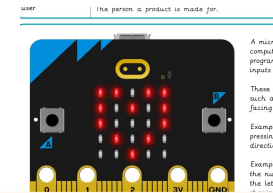
Year 6 - Digital World - Navigating the World - Term 3

Key Vocabulary

Micro:bit	A small programmable computer.
Input	A signal that a computer can react to.
Output	A result shown or produced by a program.
Compass	A tool for showing direction.
Pedometer	A tool that counts steps.
CAD	Using a computer to design a product.
Constraints	Limits or conditions for a product.
Design criteria	Features a product needs to meet.
Target audience	The people a product is aimed at.
Advert	A message that promotes a product.

A programmable device

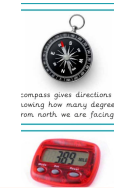
A micro:bit responds to inputs, such as a button press or change of direction, with outputs.



Code tells the micro:bit what to display.

Direction and movement

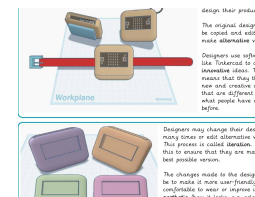
A compass shows direction; a pedometer counts steps.



Sensors can be used to create useful features.

CAD and constraints

Design a small, lightweight, waterproof, wearable product. CAD software can help refine its shape.



Test the design against its requirements.

To know statements

To investigate how existing products for the outdoor adventure market meet user needs.

To communicate and refine design ideas clearly using CAD software.

To develop a functional feature of a product by programming a digital pedometer.

To program a product to respond to directional sensors and function as a compass.

To evaluate a product to identify its pros and cons.

What can you remember from previous units?

How did programming control wearable LEDs?

Why do designers consider the needs of the user?

Anything else you have learnt?

What have you enjoyed?