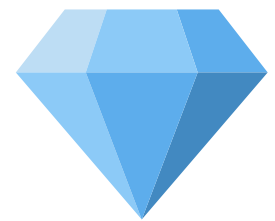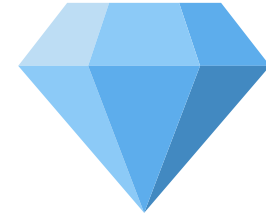# Sensing

I have already learned:

- That an **input** is an instruction given to a computer
- That an **output** is the result of an instruction given to a computer
- That inputing a command leads to a specific output
- That when a set of commands are inputted one after another it is known as an **algorithm**
- That the specific order that an algorithm is written in is known as a **sequence**

Careers in programming ✕

App Developer

Design and create apps for phones and tablets.

Programming

KNOWLEDGE GEMS
I am going to learn:

- To apply knowledge of coding to a new environment
- To design and test codes on an emulator
- To use if...then...else variables
- To experiment with different physical inputs
- To use an operand in my code
- To explain why the order of conditional statements within a program is important

Vocabulary

micro:bit	A small computer with its own programming environment
algorithm	A list of instructions that tell you what to do step by step
flow	The way a program moves from one instruction to the next in order
if...then...else	A way for a computer program to make decisions
sensing	Using sensors to detect changes in the enviroment
variable	A piece of information that can be changed

Outcome:
To design and create a micro:bit based step counter

Computer Science

How computers work and how they are made.
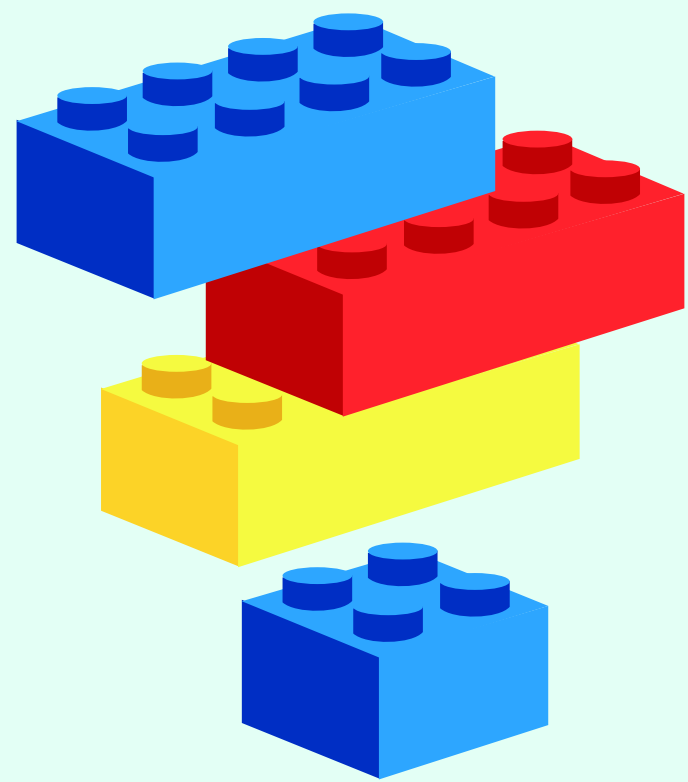
Information Technology

How to use computers to create digital content.

Digital Literacy

How to be safe and responsible on computers.

Which strands of computing have you been learning about today?

Useful Links

Microsoft micro:bit

Building Blocks to E-Safety

E-Safety Tips

- Always ask a trusted adult's permission before using the internet, and let them know what you are going to do
- Be careful what you click on. Only visit websites that are safe and appropriate, and never click on links if you don't know what they are
- If something makes you uncomfortable, worried or upset, tell a trusted adult - they can help you to deal with the problem

Try it at home!

Use the micro:bit app above to create your own codes.

Test them on the emulator on the site.

A   B

0   1   2   3V   GND