

Key learning

• Understand how python code works

• Create a code in python and explain

• Be able to use python to code the

Micro:bit to carry out simple

commands

# How can coding improve our lives?





# mpowered Learner:

dentify a range of different ways to troubleshoot and fix technology

# Computational thinker:



- Desian, write inclu

## Innov

- Deve
- Design own code and link to an invention using a Micro:bit

- Collect and

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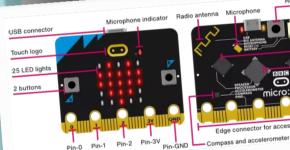


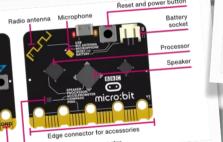
# Key vocabulary This detects movements and gestures on the accelerometer This tells a computer to run different codes conditional depending on the conditions A set of commands that you name and run function together to group tasks automatically How computers control what happens in logic certain situations These repeat sections of code loops The information we put into a computer to input produce a desired result An operator builds different conditions for a operators code to run using AND, OR and NOT The information a computer puts out e.g. a output symbol on the LED display

your programming

A way to send messages between Micro:bits

A value that can be changed or retrieved by





# Coding - Our Learning Journey

### Year I

- Using simple commands to move and change direction
- Editing characters and backgrounds
- Year 2 Using repeat and forever loops
- Put a range of codes together to make a sequence
- Debugging simple programmes

### Year 3

- Use commands, for loops and
- Use different controls and conditionals including when and if
- Use sensors and code them to work in different ways

### Year 4

- Create and edit functions
- Include functions in a game on
- Use logic for conditional commands, including 'else' command

### Year 5

radio

variable

- Use comparison and logical operators in a range of programmes
- Create different variables for speed and proximity sensors in robots
- Code sensors for different purposes

## Year 6

- Use variables to keep score in a created game
- Create a game using a range of functions, loops, operators and variables
- Begin to use Python to code Micro:Bits