**Key vocabulary**

**Microbits**

**Yr7 HT5- Microbits**

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| --- | --- |
| **Key term** | **Definition** |
| **Accelerometer** | An input device within the Micro: bit to control or alter programs by tilting or moving the device. |
| **Algorithms** | A set of instructions to be followed to complete a given task or solve a problem |
| **LED (Light emitting diodes)** | LEDs used on the Micro: bit as a screen in a 5x5 grid to display information |
| **Processor** | Received inputs from the computer and produces outputs |
| **Program** | A sequence of instructions used by a computer |



A Microbit is a small computer that only has LED lights on it, buttons and sensors.

It can help us understand how computers work by programming the different parts of it, including the inputs (lights and sensors) and outputs (lights).

There are computers in more objects than we think, such as microwave ovens and digital alarm clocks.

02

**Key blocks**

|  |  |
| --- | --- |
| A white box with black text  AI-generated content may be incorrect.` | Used to display a string (a combination of letters, numbers or symbols) onto the screen |
| A white box with black text  AI-generated content may be incorrect. | Used to display information onto the screen, controlling the LEDs that are shown based on the tick-boxes that have been selected |
| A white box with black text  AI-generated content may be incorrect. | Used to loop through any code contained within the block |
| A white box with black text  AI-generated content may be incorrect. | Used to run certain code contained within the block when the A button is pressed |
| A white box with black text  AI-generated content may be incorrect. | Used to create a variable which can be altered to control parts of the program |

A colorful rectangular sign with white text

AI-generated content may be incorrect.

cv

A close up of a list

AI-generated content may be incorrect.A black circuit board with pink dots and yellow lines

AI-generated content may be incorrect.

**You need to be able to answer...**

|  |  |
| --- | --- |
| **KQ1 – What is a Micro: Bit?** |  |
|  |  |
| **KQ2 – What is an algorithm?** |  |
|  |  |
| **KQ3 – How do you control the input/output on a Micro: bit?** |  |

