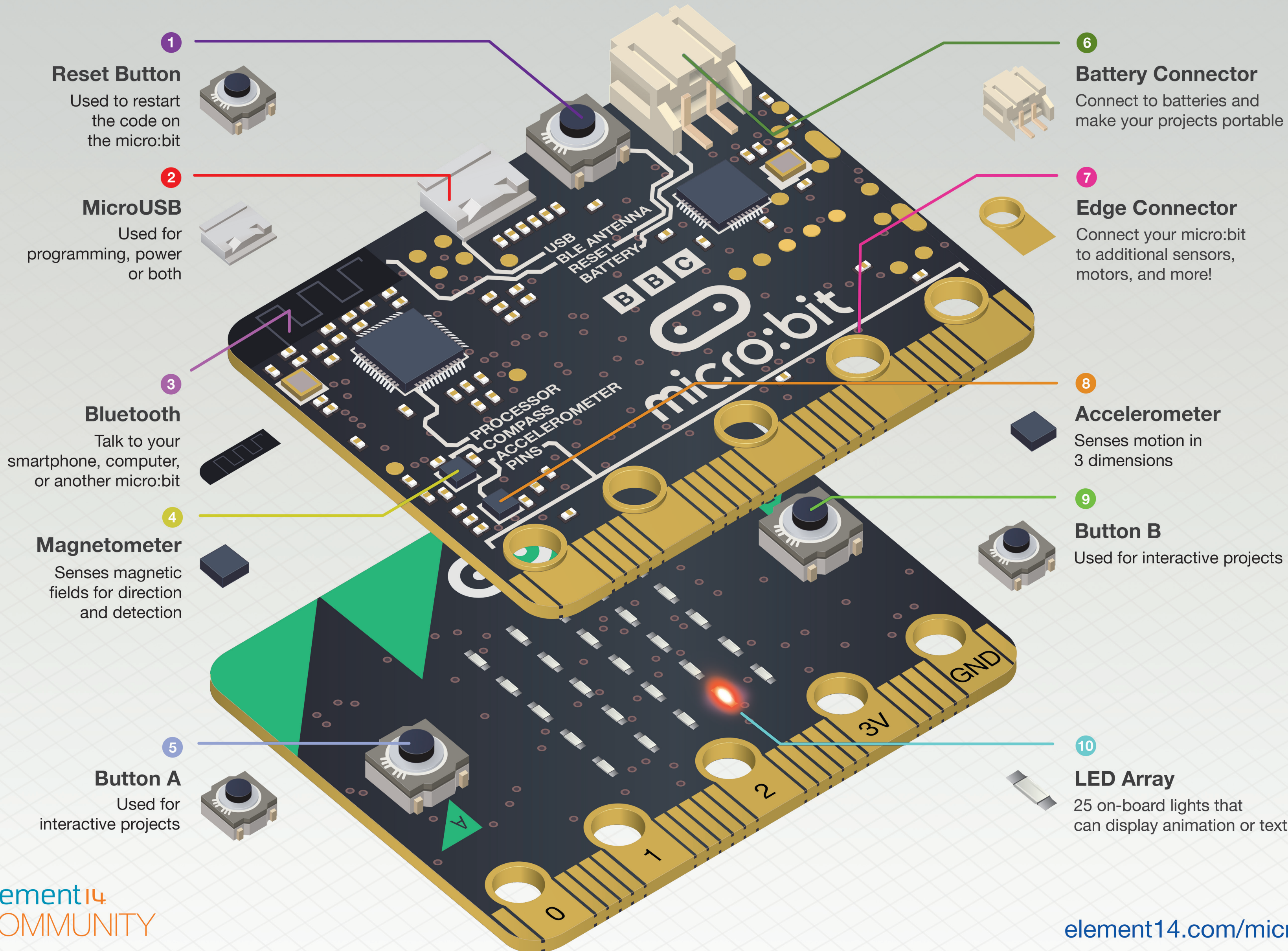# The BBC micro:bit

A pocket-sized, codeable ARM based computer designed for computer education. With a built-in compass, motion detection and Bluetooth technology. With an ambition to inspire digital creativity to develop a new generation of tech' pioneers in collaboration with the element14 Community.

1 Reset Button
Used to restart the code on the micro:bit

2 MicroUSB
Used for programming, power or both

3 Bluetooth
Talk to your smartphone, computer, or another micro:bit

4 Magnetometer
Senses magnetic fields for direction and detection

5 Button A
Used for interactive projects

6 Battery Connector
Connect to batteries and make your projects portable

7 Edge Connector
Connect your micro:bit to additional sensors, motors, and more!

8 Accelerometer
Senses motion in 3 dimensions

9 Button B
Used for interactive projects

10 LED Array
25 on-board lights that can display animation or text

USB BLE ANTENNA RESET BATTERY

PROCESSOR COMPASS ACCELEROMETER PINS

BBC micro:bit

GND 3V 2 1 0

PICK YOUR PROJECT

Fitness Tracker
Requires the use of:
8 Accelerometer
10 LED Array

Gaming
Requires the use of:
5 Button A
9 Button B
10 LED Array

Metal Detector
Requires the use of:
4 Magnetometer
10 LED Array

Door Bell / Alarm
Requires the use of:
3 Bluetooth
8 Accelerometer
10 LED Array

Robotics
Requires the use of:
5 Button A
9 Button B
8 Accelerometer
7 Edge Connector
6 Battery
3 Bluetooth

element14.com/microbit