



Microbit

Workshop Lv 4

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Microbit Hardware Information

- <http://tech.microbit.org/hardware/>
- <http://microbit.org/guide/hardware/pins/>

Microbit Limitation

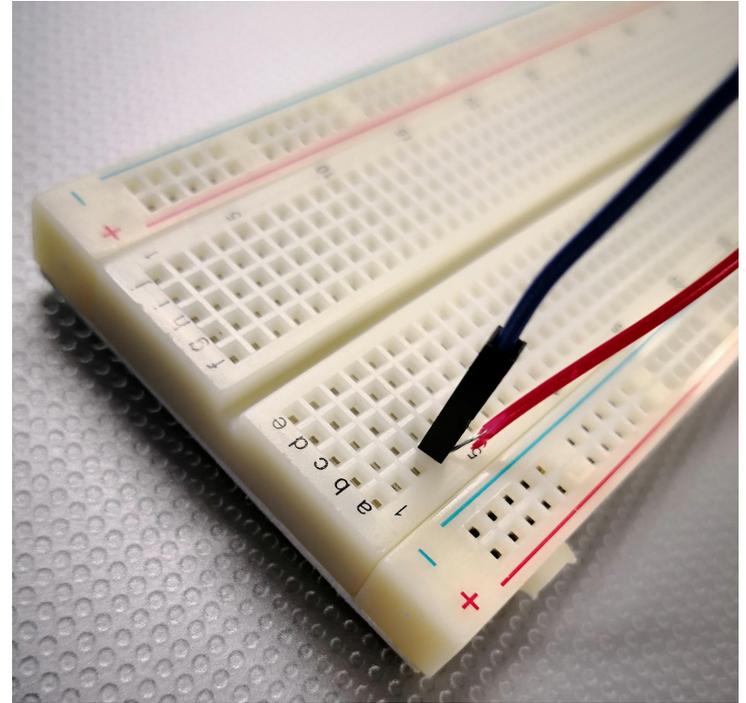
- Voltage
 - 1.8v - 3v
- Connection
 - Pin 0,1, 2

Microbit external devices

- <https://www.kitronik.co.uk/>
- Breadboard
- Motor drive board

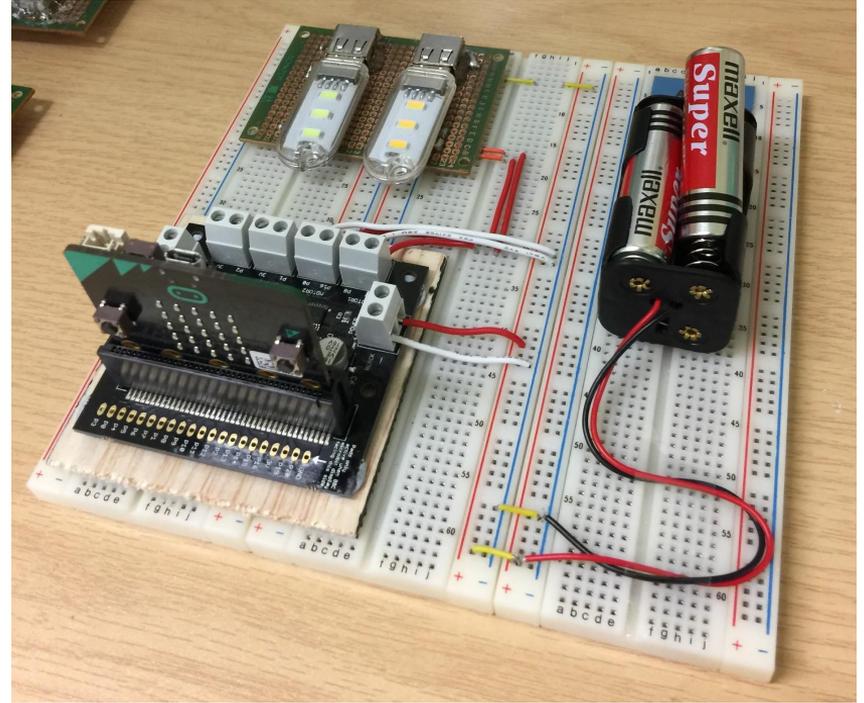
Breadboard

- Connect the wires
- Easy building a testing environment



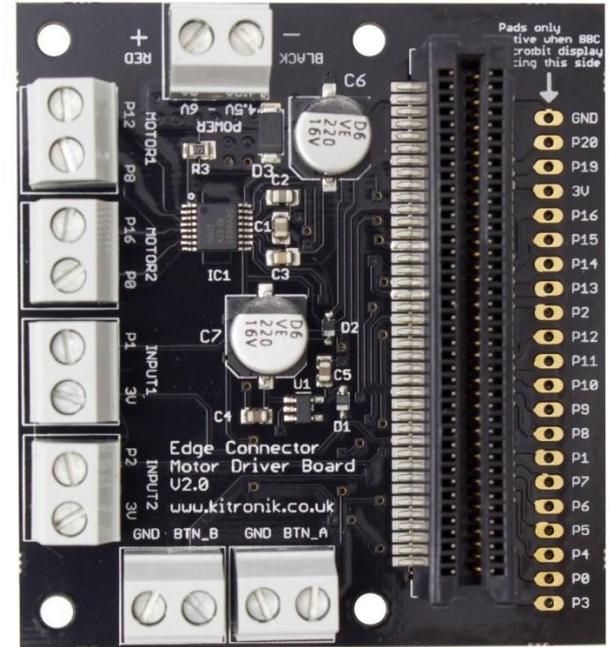
Breadboard

- Suitable for students
- Easy to learn



Microbit Motor Board

- Input
 - Max. 9V
- Output
 - 1.8v to 6V
- 2 Motor Port



Exercise 1

Using the internal light sensor to control motor

Steps

1. Detect current light level
2. Motor will turn on when light level is increase more than 50 points

Exercise 1 (Reflection)

- Cannot connect the wire to socket
- Wire is too small
- Teaching materials is not enough
- I don't know

How to use the meter

- Check voltage
- Check connection



Exercise 2

- Using the meter to check
 - the battery voltage
 - the wires connection
- Finish the exercise 1

End