

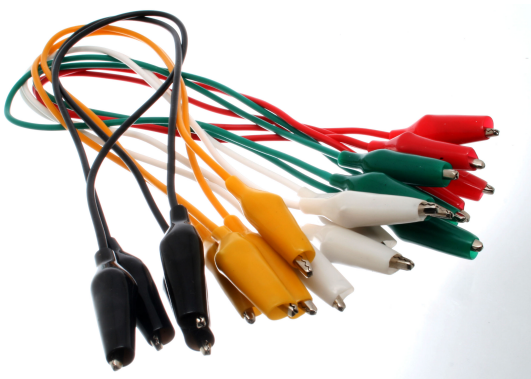
What sensors and components can I use with the micro:bit?

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The micro:bit **edge connector** (<http://microbit.org/guide/features/#pins>), makes it easy to extend your projects and communicate with other sensors and peripherals. If you're interested in doing that, there are some useful and relatively cheap components to get started and many are available from **local resellers** (<http://microbit.org/resellers/>).

Crocodile/Alligator Leads

Used to connect the micro:bit pins to anything else. These come with a variety of terminations for use with breadboards and other components



LEDs

In addition to the 5x5 LED display on the micro:bit, you can control external LEDs that can be single colour or RGB(W) capable such as WS2812 (sometimes called Neopixel) strips





Servo Motors

Hobby servos are small mechanisms that can be controlled by sending a PWM (**pulse-width modulation** (https://en.wikipedia.org/wiki/Pulse-width_modulation)) signal to determine the position of the servo.



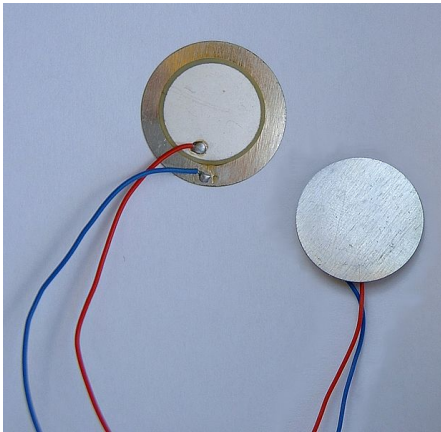
Headphones/Speakers

The latest micro:bit V2 has a built-in speaker, but all micro:bits are capable of emitting sound on the pins too, which can be heard by connecting headphones or speakers, such as piezos.

Students may have headphones they can already use and piezoelectric pickups are small, cheap ceramic discs that can

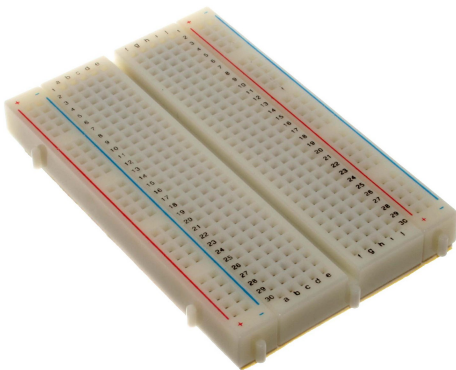


be used to play back sound.



Breadboards

These boards allow connection of many of the peripherals listed above without having to make permanent or soldered connections. They are ideal for experimenting.



Many of these have been incorporated into great accessories, so check out your local [resellers list for information](http://local%20resellers) (<http://local%20resellers>).

Further Information

This handy guide from **teachwithict** (<https://www.teachwithict.com>) introduces a range of **projects for connecting the micro:bit to some of these sensors and components** (<https://www.teachwithict.com/physical-computing.html>).