

# Breadboard breakout for the BBC micro:bit

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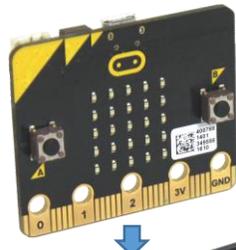
**Introduction:** The breadboard breakout has been designed to give the user the ability to plug a BBC micro:bit into a standard 2.54mm pitch breadboard. Two 11 way pin headers are used to make connections into the breadboard. The Breadboard breakout does not have any additional components to power the BBC micro:bit, so the JST/USB connections on the BBC micro:bit must be used, or 3V can be applied to the 3V pin when the board is inserted into a breadboard. Included are pinout stickers to place on the side of the edge connector to help indicate the pinout from the BBC micro:bit.

## Pin Connections:

The order of the pins from the BBC micro:bit has been designed to replicate the style of standard IC packages. As such, power connections are in opposite corners and pin numbers increase in a counter clockwise direction. See Layout and Dimensions section for pinout details.

## Connecting a BBC micro:bit:

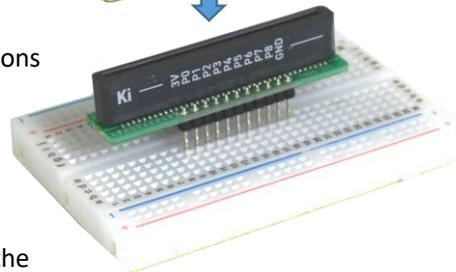
The board has been designed so that the BBC micro:bit can be slotted into the edge connector on the top side of the PCB. No extra tools are required for installation. The blue arrows show the direction of insertion of the BBC micro:bit. The front of the BBC micro:bit (the side with the LEDs) needs to be inserted facing the same side as the 3V pin.



The edge connector has connections on only one side, so if the BBC micro:bit is inserted in reverse orientation, it will not work.

## Connecting onto a Breadboard:

The PCB is design to plug across the middle slot of a breadboard – the same placement as an IC component.



## Layout and Dimensions:

