# Resources for Learning with the BBC Micro:bit

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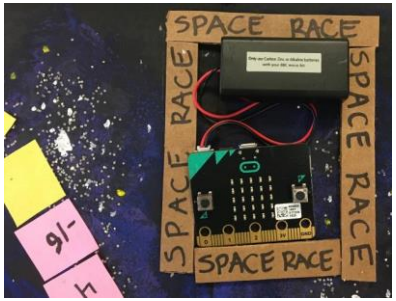
| micro:bit | Everything you need. Go here if you want to program in **python** | https://microbit.org/code/<br><br>https://makecode.microbit.org/<br><br>https://makecode.microbit.org/projects<br><br>https://microbit.org/teach/iet/ |
| code club | Learn via mini projects | https://codeclubprojects.org/en-GB/microbit/ |
|  | **Intro to CS**<br>an introduction to coding and computer science by way of making and design, using the revolutionary new micro:bit microcontroller board, and Microsoft's easy and powerful MakeCode block-based coding environment. | https://makecode.microbit.org/courses/csintro |
| LAUNCH COMPUTER SCIENCE | 10 Lesson Unit on Physical Computing with the Micro:Bit | Physical Computing with the Micro:Bit<br><br><<Physical Computing with the MicroBit - Launch CS.zip>> |
| micro:mag | The home of the Unofficial micro:bit Community Magazine | https://micromag.cc/ |

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|  | Huge list of links to microbit resources | http://microbitslug.org/resources/ |
|  | Free courses with microbit | https://groklearning.com/csedweek/aca-dt-mini-bk-microbit-rocket/<br>https://groklearning.com/csedweek/aca-dt-mini-py-microbit-intro/<br>https://groklearning.com/csedweek/aca-dt-mini-bk-microbit-intro/ |
|  | Inventor's Kit contains everything you need to complete 12 experiments including using LEDs, motors, LDRs and capacitors. | https://www.kitronik.co.uk/blog/kitronik-inventors-kit-resources |
|  | Extensive lessons and courses | https://www.kitronik.co.uk/blog/bbc-microbit-kitronik-university/ |
|  | SparkFun Inventor's Kit for micro:bit Experiment Guide | https://learn.sparkfun.com/tutorials/sparkfun-inventors-kit-for-microbit-experiment-guide/introduction-to-the-sparkfun-inventors-kit-for-microbit |
|  | Learn micropython | https://microbit-micropython.readthedocs.io/en/latest/tutorials/introduction.html<br><br>https://microbit-challenges.readthedocs.io/en/latest/index.html |
|  | Good list of well documented challenges and tutorials | https://www.101computing.net/category/bbc-microbit/ |

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| TECH WILL SAVE US | Various microbit projects | https://make.techwillsaveus.com/microbit |
| MultiWingSpan | Extensive collection of tutorials and resources: javascript, python, kodu, bitbot, visual basic | http://multiwingspan.co.uk/micro.php |
| KODU GAME LAB COMMUNITY Build Games. Play Games. Share Games. | BBC micro:bit and Kodu Interact | https://www.kodugamelab.com/resources/#microbit |
|   | These resources show you how to control the popular block-based building game Minecraft using your micro:bit. This is achieved using bitIO, an I/O library for Python. This allows you to interact directly with your micro:bit in Python 2 or 3 on your computer. | https://microbit.org/en/2018-11-02-bitio-minecraft/ |
| GeoGebra | free online math tools for graphing, geometry, 3D, and more! | https://www.stem.org.uk/resources/community/resource/5517/computer-graphics-geogebra<br><br>https://www.stem.org.uk/resources/community/resource/435272/data-logging-bbc-microbits-and-makecode-modelling-excel-and<br><br>https://www.stem.org.uk/resources/community/resource/5518/getting-going-geogebra |

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| MicroBits & Bobs<br>Teaching and Support for the BBC Micro:Bit | There are loads of ways of programming your Micro:Bit most accessible via web based developers | http://www.microbitsandbobs.co.uk/ |
| TE@CH WITH ICT | Lots of guides using sensors | http://www.teachwithict.com/physical-computing.html |
| Awesome micro:bit awesome | Huge list of resources on github | https://github.com/carlosperate/awesome-microbit/blob/master/README.md |
| Wonderful Idea Co. | ideas | https://wonderfulidea.co/blog/ |
|  | Make a kinetic sculpture | http://avam.org/kinetic-sculpture-race/ |
| PLEN Project Company Inc.<br>Let's humanize technology!<br>Osaka-city / Japan https://plen.jp/ helpline@plen.jp | The world's first printable open-source humanoid, starter kit. | https://github.com/plenprojectcompany |
|  | This site outlines a few ideas for using the micro:bit to teach classic science classes | https://sites.google.com/view/microbitofthings/16-science |
| Project Collections | | • microbit.co.uk Site Index - The microbit.co.uk website contains an extensive list with all their projects and tutorials.<br>• hackster micro:bit community - This hackster community contains user submitted projects for the micro:bit.<br>• MakeCode Projects - List of micro:bit projects you can do with the MakeCode editor.<br>• Tinkercademy Projects - Collection of projects using the micro:bit and Tinkercademy Tinker Kit. |

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| | | • Raspberry Pi micro:bit Projects - Collection of Raspberry Pi and micro:bit projects from the Raspberry Pi Foundation.<br>• Hackaday.io micro:bit Projects - Projects using the micro:bit tag in Hackaday.io, a collaborative hardware development community.<br>• Maker.io micro:bit projects - All the micro:bit projects posted to Maker.io, a playground for makers.<br>• Electromaker micro:bit projects - All the micro:bit projects posted to Electromaker, a platform for makers to showcase their projects.<br>• 10 BBC micro:bit Projects in 10 Days |
|  | sloth:bit is a programmable biped robot powered by BBC micro:bit | https://makecode.microbit.org/pkg/sunfounder/pxt-sloth<br><br>https://www.sunfounder.com/humanoid-robot-bbc-micro-bit.html |
| STEM LEARNING | List of learning resources | https://www.stem.org.uk/search?search_query=bbc+microbit |