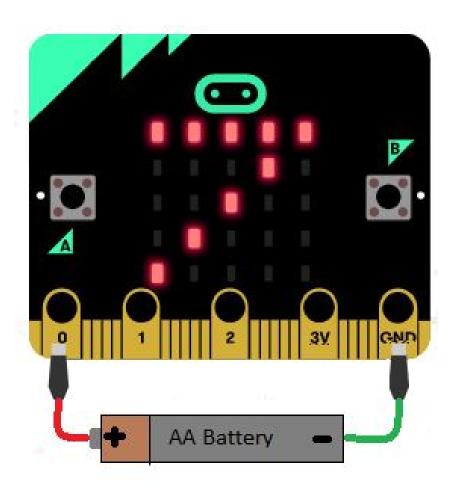
Coding using using

Microbits - Python

Plans, Notes, Sketches & Reflections



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Introduction

This booklet has been created for use in teaching Coding & Innovation using Microbits with Python. It is designed to be used in 7th - 9th grades. In this booklet there are pages for planning projects, notes & reflections, and pages to make sketches of ideas. The first page can be used to create an index of the contents of the booklet.

The course contains 6 modules and with project in the end. Each module should be able to be completed in about 3-5 hours. The projects are designed to teach creativity, collaboration, problem solving, computational thinking, coding using Python, and thinking that leads to innovation.

Resources

Microbit website - https://microbit.org/

Python IDE - https://python.microbit.org/v/1.1

Micro Python reference - https://microbit.org/guide/python/

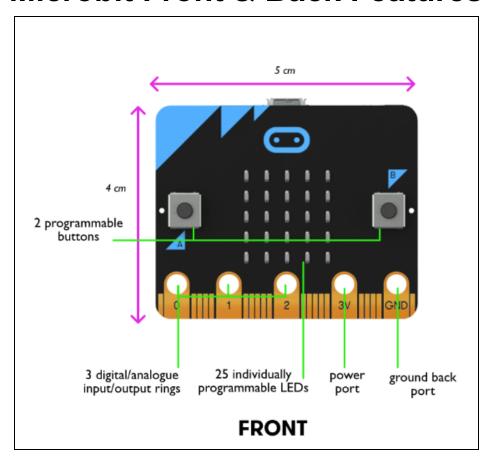
Microbit projects - https://microbit.org/ideas/ > Python

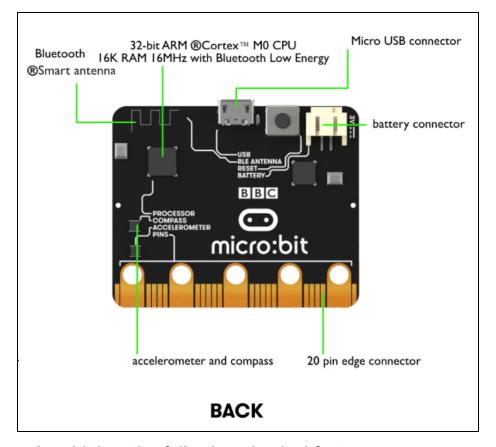
Microbit Courses - https://makecode.microbit.org/courses

Coding & Innovation using Microbits website -

https://sites.google.com/view/utahcodingproject/microbits/pytho n-coding-microbits

Microbit Front & Back Features





The micro:bit has the following physical features:

- 25 individually-programmable LEDs
- 2 programmable buttons
- Physical connection pins
- <u>Light</u> and <u>temperature</u> sensors
- Motion sensors (<u>accelerometer</u> and <u>compass</u>)
- Wireless Communication, via <u>Radio</u> and <u>Bluetooth</u>
- USB interface

Source: https://microbit.org/guide/features/

Micro Python IDE

