

MICROBITS

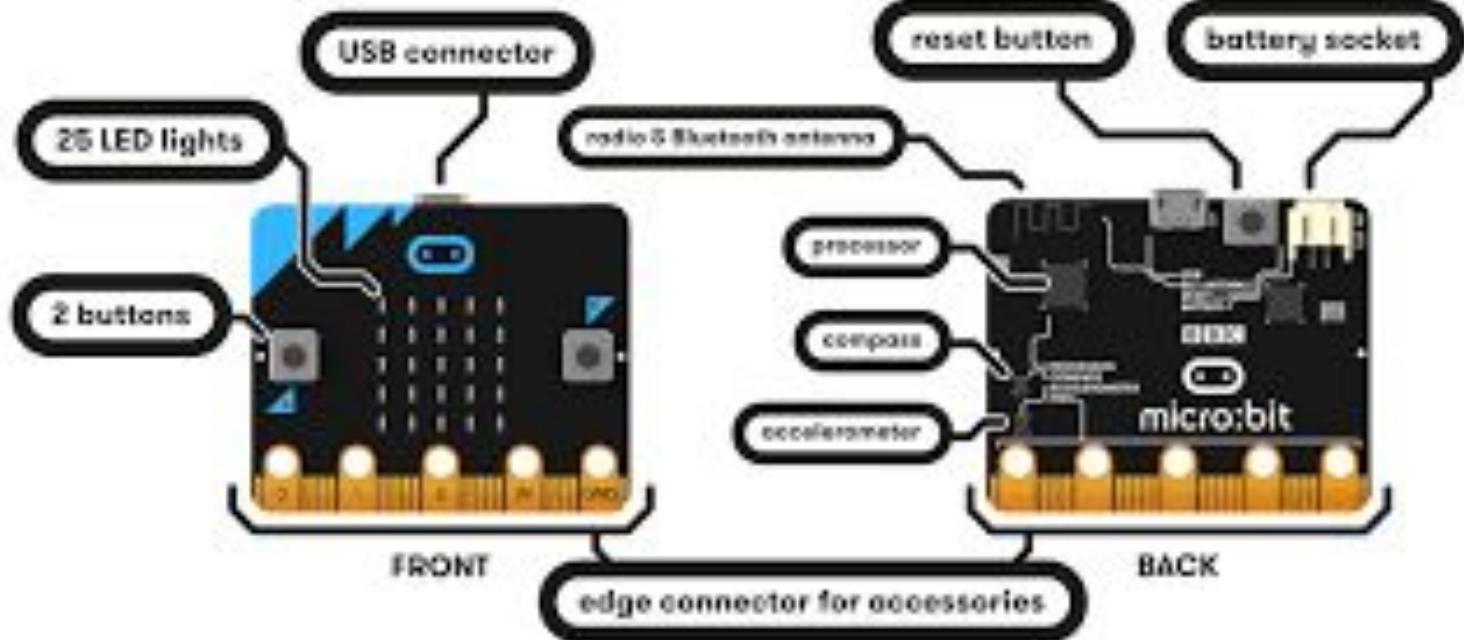
A Presentation by Tyler Crabtree & James Feeley 

What is a Microbit?

Definition: A micro:bit is a pocket-sized computer that introduces how software and hardware work together. It has an LED light display, buttons, sensors, and many input/output features that you can program and physically interact with. The latest micro:bit adds sound sensing and playback capabilities

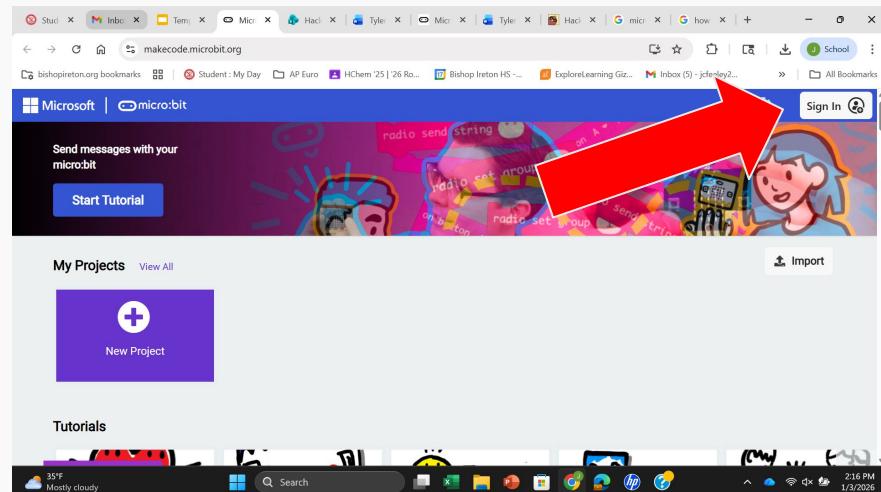


MICROBIT ANATOMY



Getting Started

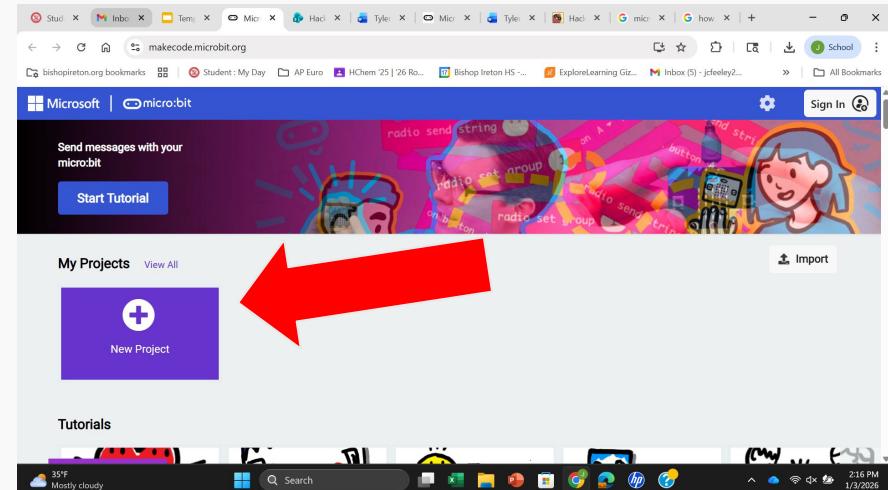
1. Go to makecode.microbit.org
2. Click Sign in if you want to save your progress



Getting Started

3. Click the New project button

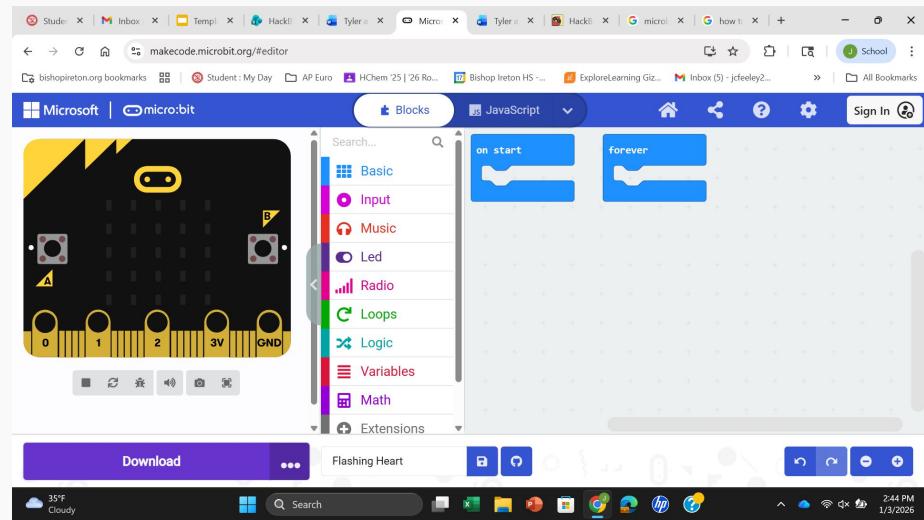
4. Name the New project
Flashing Heart



Getting Started

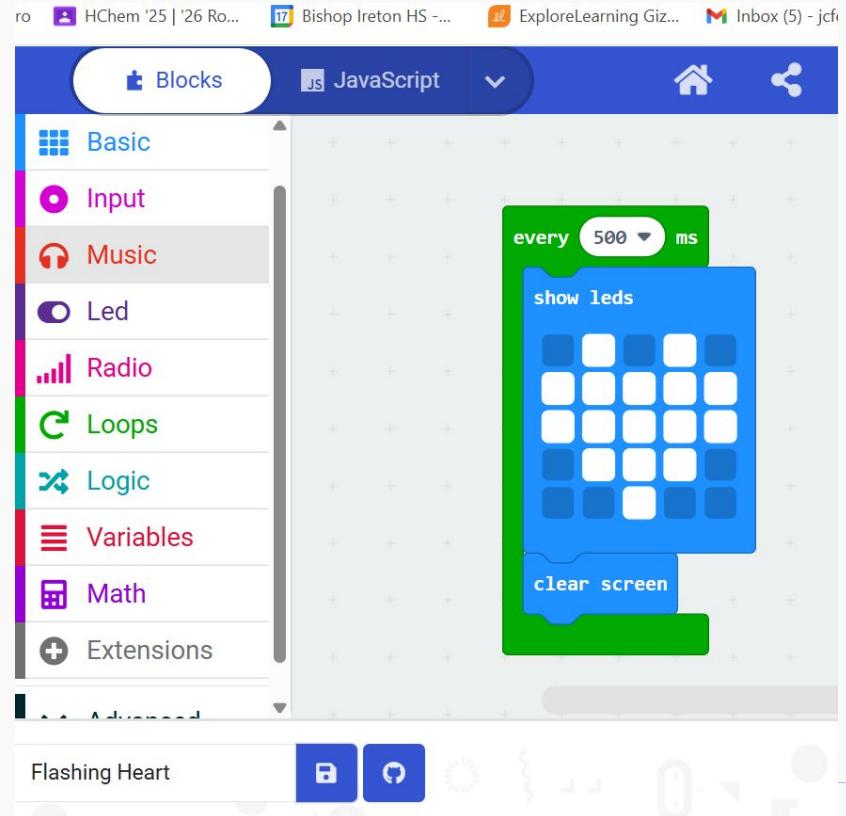
5. On the left you will see the microbit, and on the right you will see tabs of coding blocks.

6. We will go through the tabs with you



Flashing heart Example

1. Go to loops tab and drag out the every 500ms Block
2. Go to basic tab and drag out show leds block
3. Click the boxes to draw a heart
4. Add a clear screen block below show leds
5. Click on microbit display to start procedure



Testing your Physical Microbit

Testing your physical micro:bit:

- Click 3 dots (...) by purple download bar
- Click "connect device"
- Plug charger into box and plug end into microbit (be careful!)
- Click "next"
- Click "pair"
- Select the microbit (should be the only option) and click "connect"
- It should confirm that you're connected and start making a noise
- To test your code, click the purple "Download" bar

Project ideas

- Draw a flashing heart
- Write your name
- Draw a picture of choice
- Dice simulator
- Happy/sad face based on button clicked
- Create a song of choice