

# MICROBITS

A Presentation by Tyler Crabtree  
and James Feeley

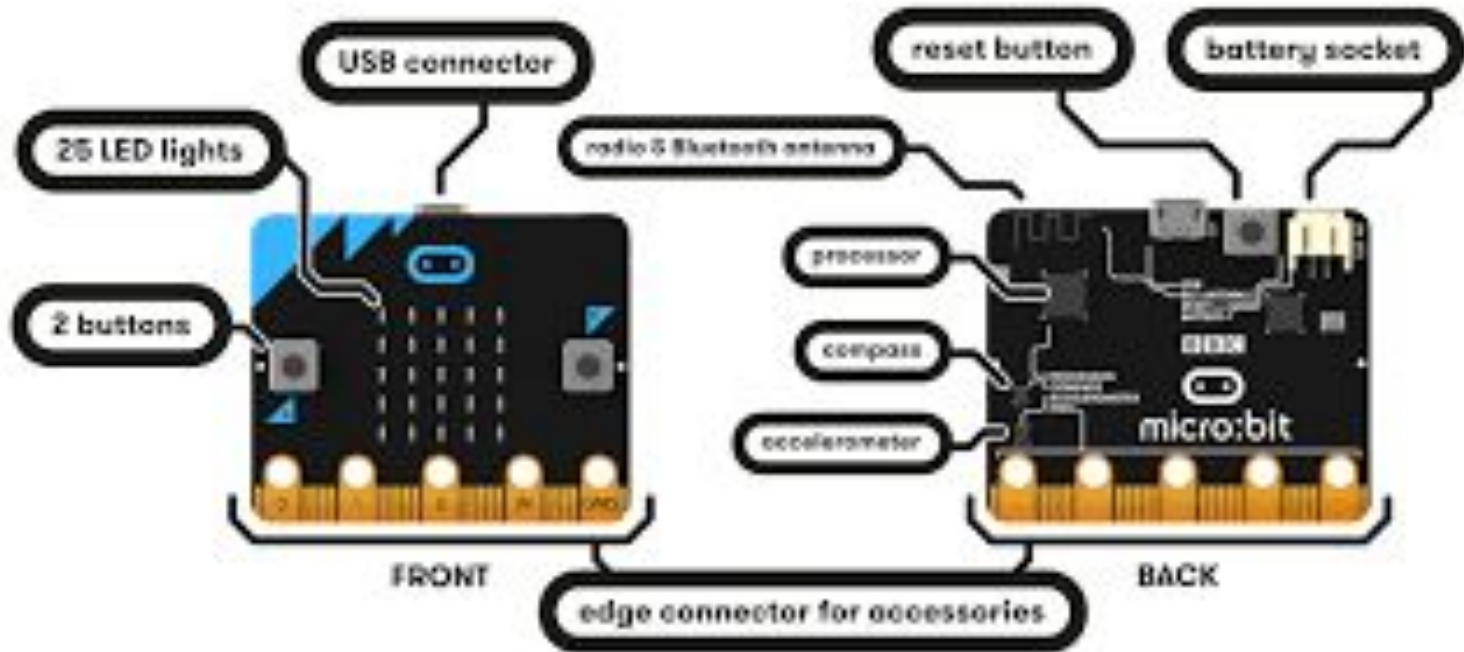


# What is a Microbit?

**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

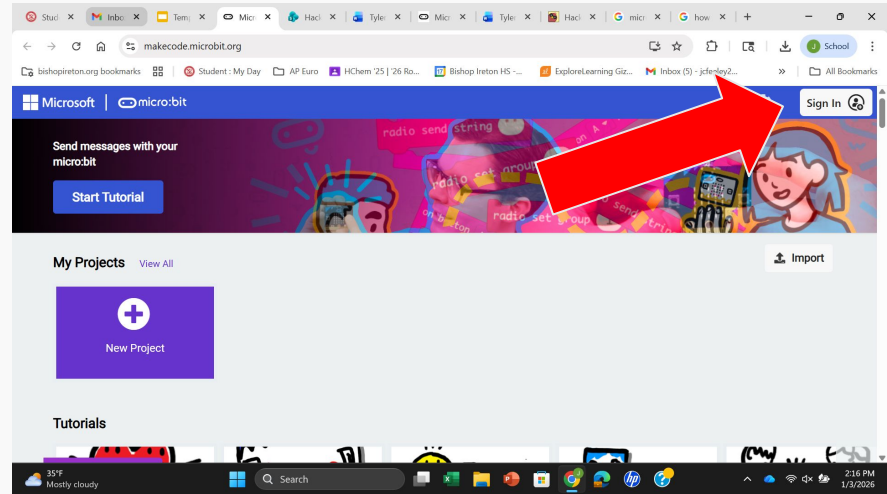


# MICROBIT ANATOMY



# Getting Started

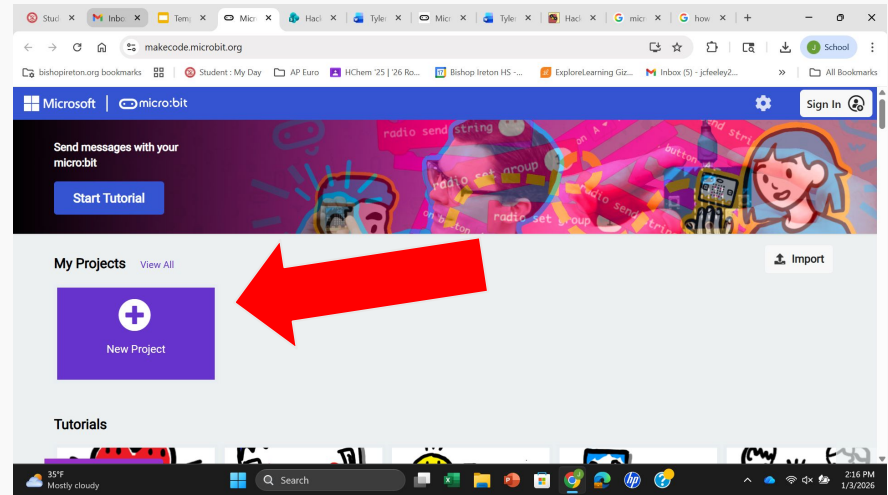
1. Go to [makecode.microbit.org](https://makecode.microbit.org)
2. Click Sign in if you want to save your progress



# Getting Started

3. Click the New project button

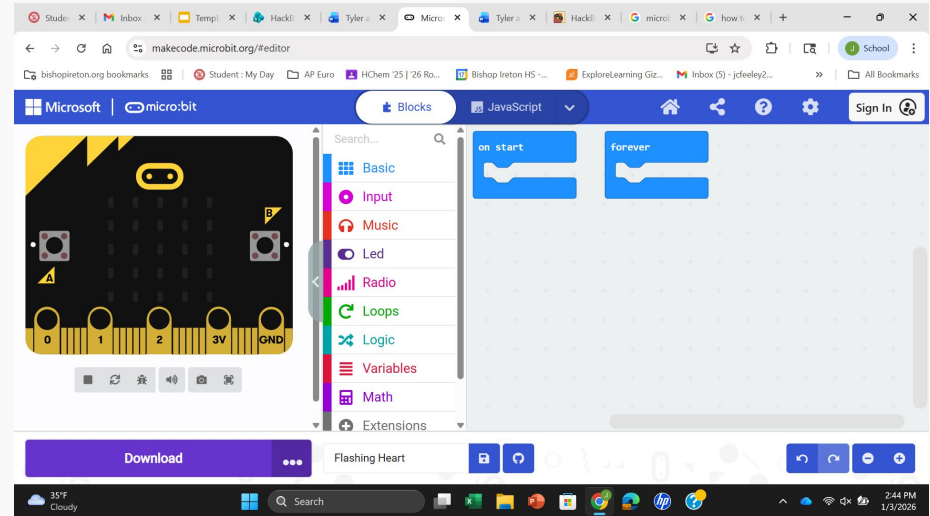
4. Name the New project  
Flashing Heart



# Getting Started

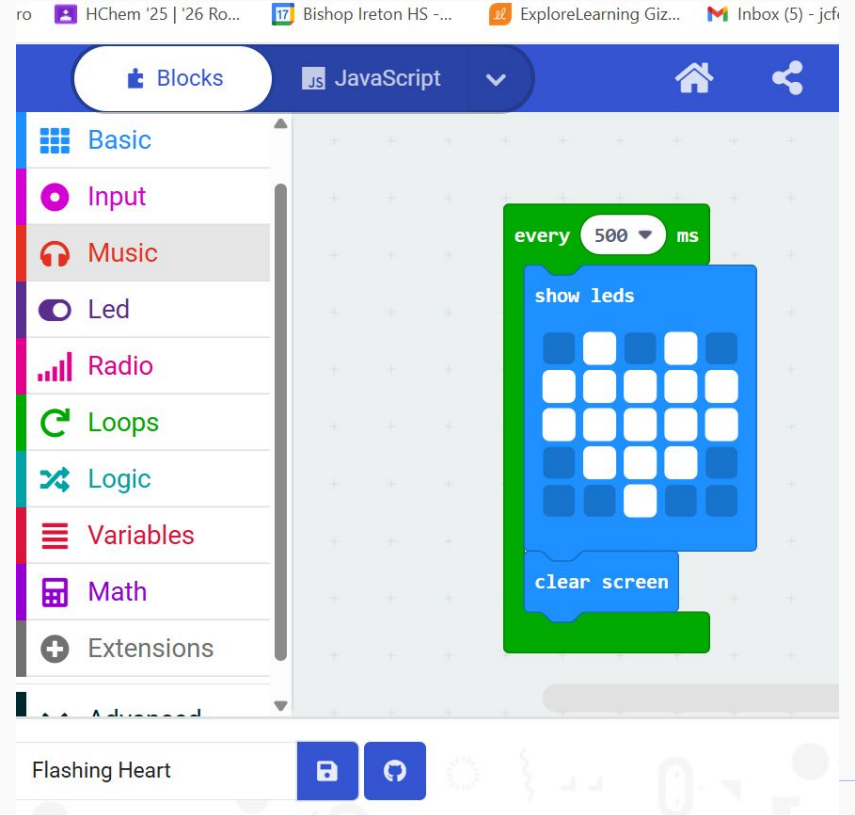
5. On the left you will see the microbit, and on the right you will see tabs of coding blocks.

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