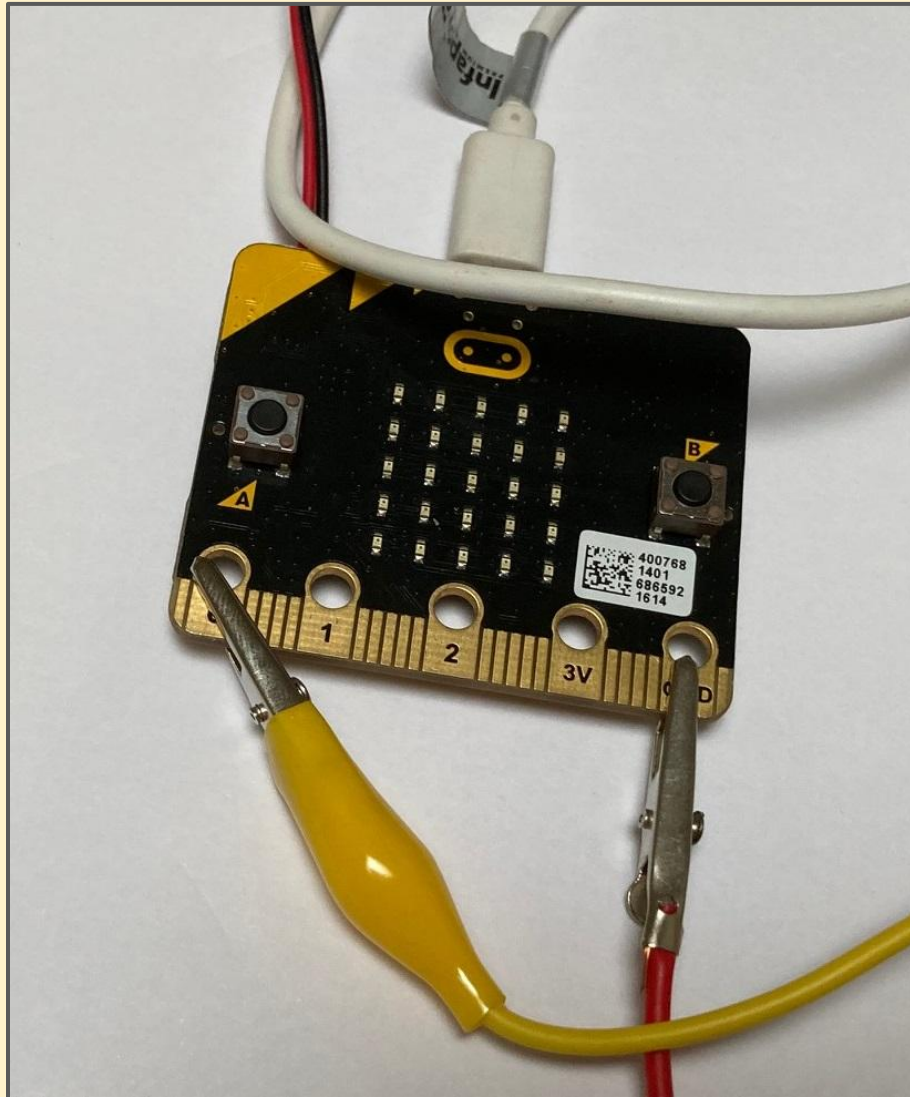# Micro:bit Programming - sound
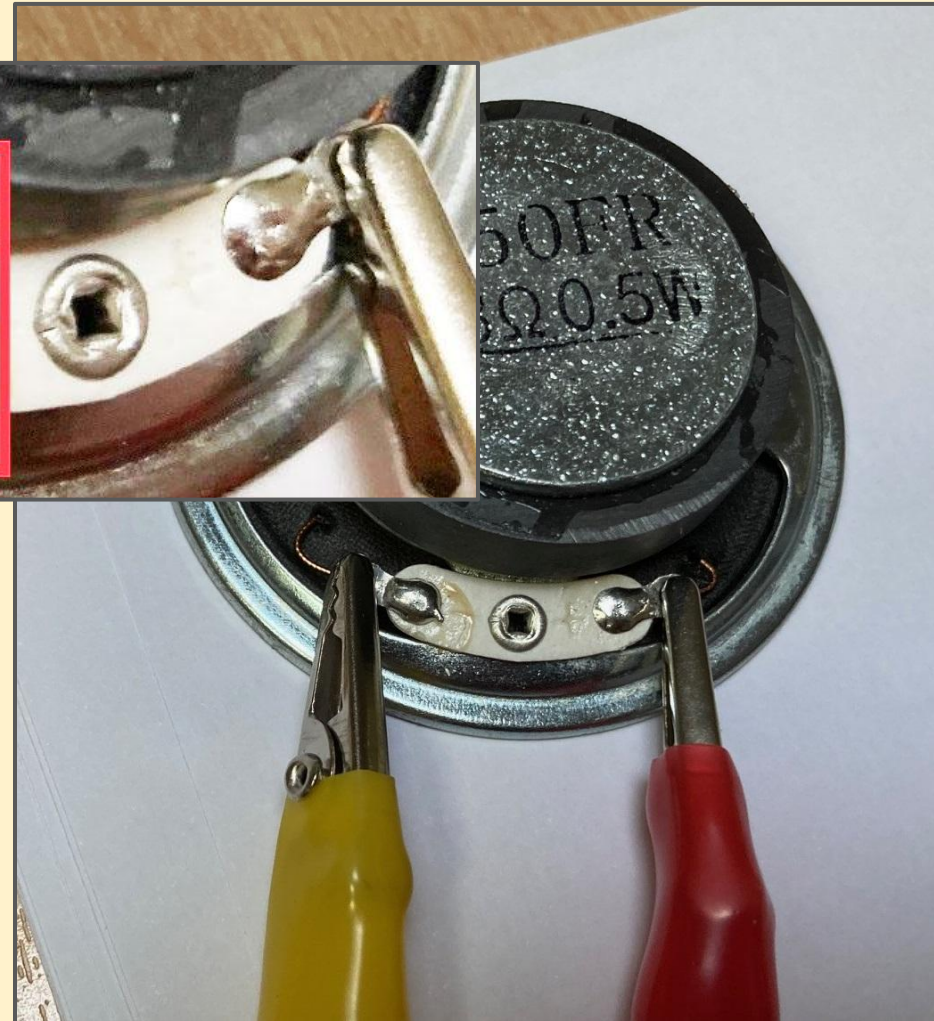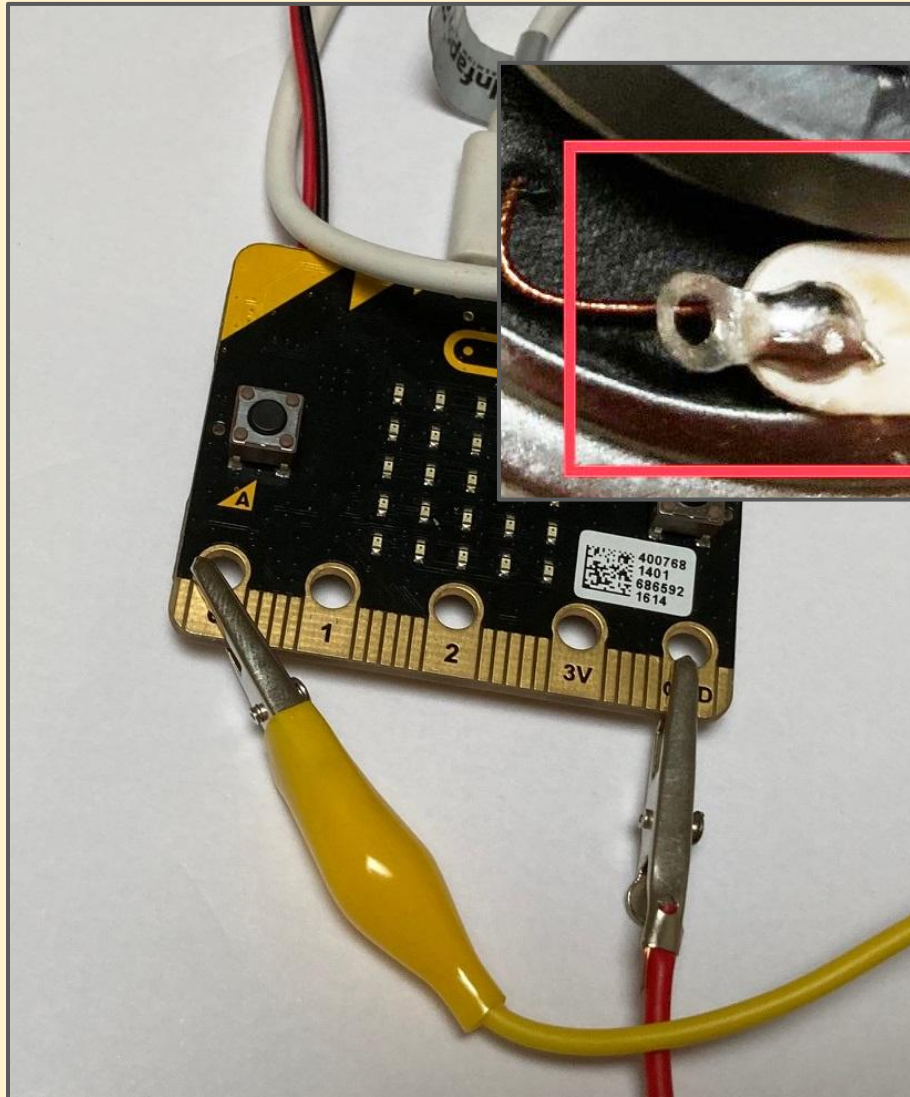
It's possible to make a micro:bit make sounds.

To do this you need:

- a micro:bit
- two wires with crocodile clips
- a speaker
- a usb cable

Micro:bit Programming - sound

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Using the **Python Editor**…

Write a program to play sounds

Challenges:

1. Play the sounds on a button press
2. Play another sound at the beginning
3. Repeat the sound three times
4. Add some speech to the sounds

Micro:bit Programming - sound

Playing a built in sound:

```
1  # playing a sound
2  from microbit import *
3  import music
4
5  while True:
6      if button_a.is_pressed():
7          music.play(music.ENTERTAINER)
8
```

Micro:bit Programming - sound

Repeating a sound:

```
1  # playing a sound
2  from microbit import *
3  import music
4
5  while True:
6      if button_a.is_pressed():
7          for i in range(0,3):
8              music.play(music.ENTERTAINER)
9
```

This uses a FOR loop. This can be told to repeat a block of code a set number of times rather than forever

Micro:bit Programming - sound

Adding synthesised speech:

```
1  # playing a sound
2  from microbit import *
3  import music
4  import speech
5
6  speech.say("hello i am a microbit")
7
8  while True:
9      if button_a.is_pressed():
10         for i in range(0,3):
11             music.play(music.ENTERTAINER)
12
```