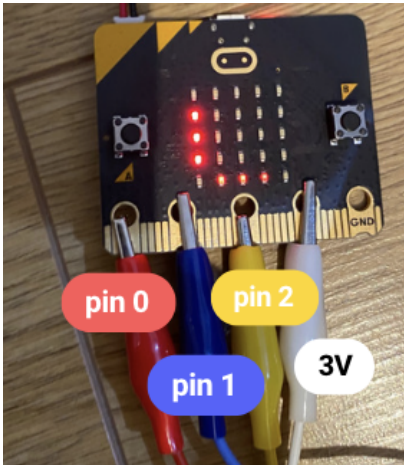
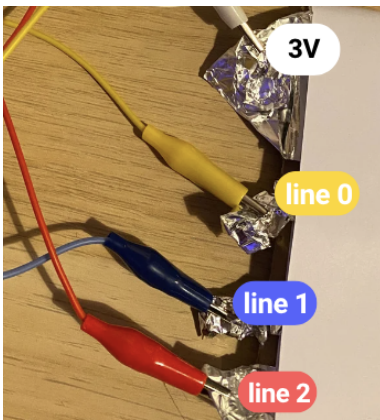


Microbit piano

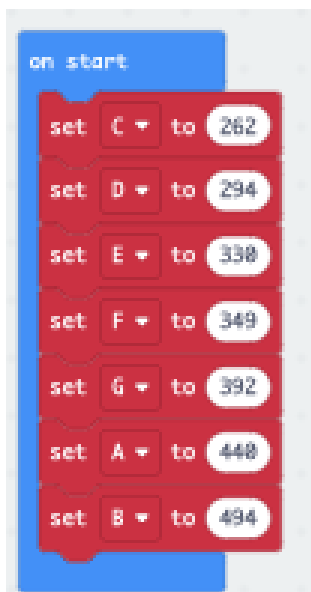
Connect crocodile clips to microbit



Connect crocodile clips to piano



1. Set up the variables for each music note to the correct frequencies.



2. Set the music notes according to the pins

Pins -> digital read pin P0

Music -> play tone Middle C for 1 beat until done

Variables -> C -> play tone C for 1/2 beat

```
forever
  set line0 to digital read pin P2
  set line1 to digital read pin P1
  set line2 to digital read pin P0

  if <not line2> and <not line1> and line0 then
    play tone C for 1/2 beat
    show string C

  if <not line2> and line1 and <not line0> then
    play tone D for 1/2 beat
    show string D

  if <not line2> and line1 and line0 then
    play tone E for 1/2 beat
    show string E

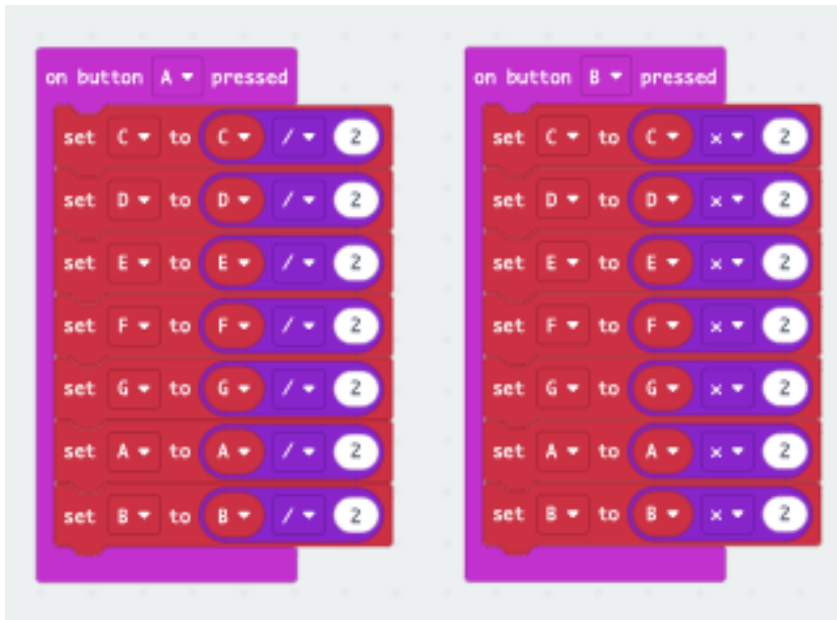
  if line2 and <not line1> and <not line0> then
    play tone F for 1/2 beat
    show string F

  if line2 and <not line1> and line0 then
    play tone G for 1/2 beat
    show string G

  if line2 and line1 and <not line0> then
    play tone A for 1/2 beat
    show string A

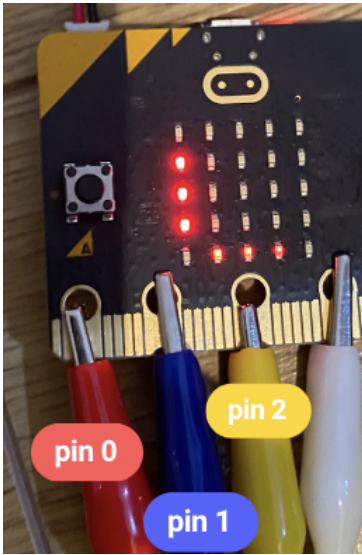
  if line2 and line1 and line0 then
    play tone B for 1/2 beat
    show string B
```

3. (Optional) Press button A to lower notes by one octave, press button B to up the notes by one octave

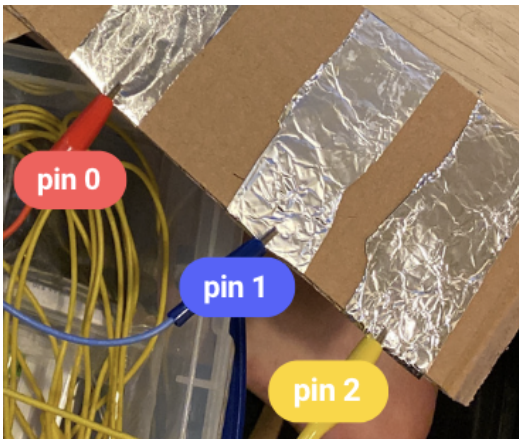


Microbit guitar

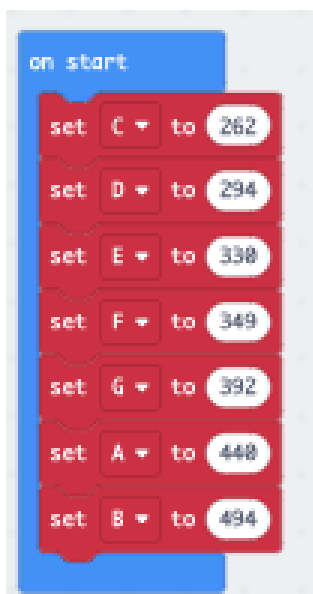
Connect crocodile clips to microbit



Connect crocodile clips to guitar



1. Set up the variables for each music note to the correct frequencies.



2. Set the music notes according to the pins

Pins -> digital read pin P0

Music -> play tone Middle C for 1 beat until done

Variables -> C -> play tone C for 1/2 beat

```
forever
  set p0 to digital read pin P0
  set p1 to digital read pin P1
  set p2 to digital read pin P2

  if p0 = 1 then
    play tone C for 1 beat until done
    show string "C"
    play tone E for 1 beat until done
    show string "E"
    play tone G for 1 beat until done
    show string "G"

  if p1 = 1 then
    play tone D for 1 beat until done
    show string "D"
    play tone F for 1 beat until done
    show string "F"
    play tone A for 1 beat until done
    show string "A"

  if p2 = 1 then
    play tone E for 1 beat until done
    show string "E"
    play tone G for 1 beat until done
    show string "G"
    play tone B for 1 beat until done
    show string "B"
```

3. (Optional) Press button A to lower notes by one octave, press button B to up the notes by one octave

