

YFROBOT

Micro:Bit基础课程

第六课 听音乐

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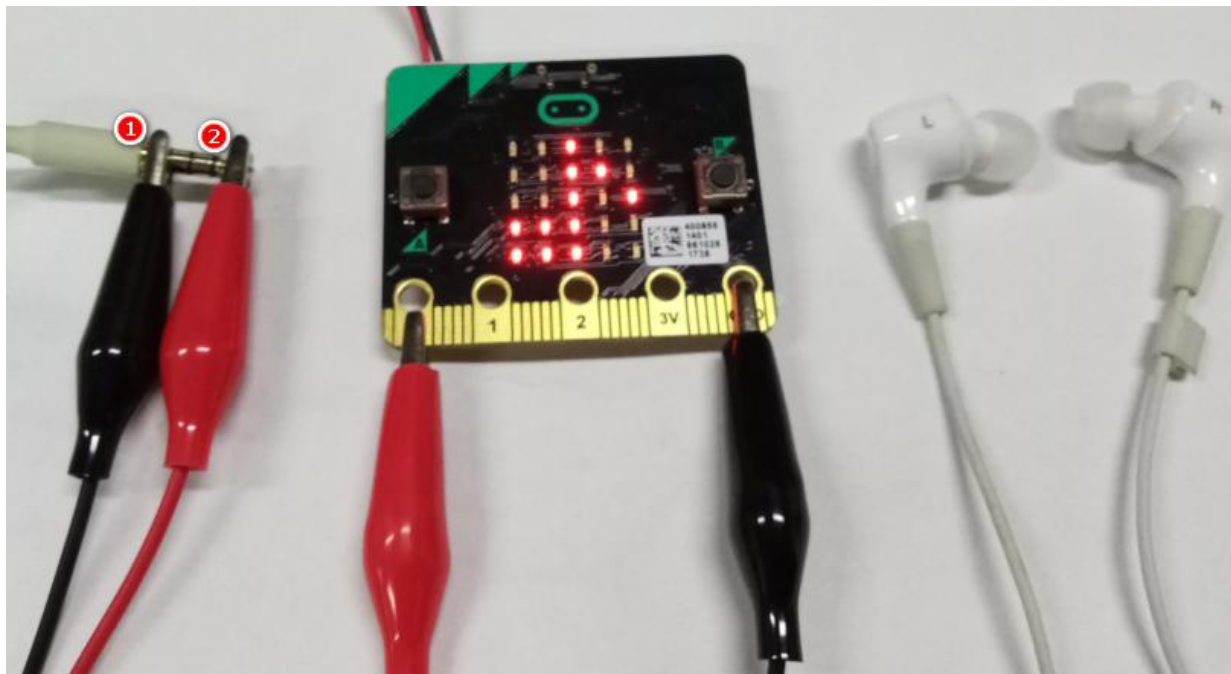
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Part 1

学习目标



大家这次的实验需要用到两个鳄鱼夹和一对耳机，首先用黑色的鳄鱼夹夹住Micro:bit的GND，黑色鳄鱼夹的另一端夹住耳机的接口1，再用红色的鳄鱼夹夹住P0，另一端夹住耳机的接口2，在下载好程序以后，就能从耳机里面播放音乐了喔~

Part 2



课前准备

器材准备：

- Micro:bit主板*1
- USB数据线*1
- 鳄鱼夹线*2
- 耳机
- 一台可以上网的电脑

然后将Micro:Bit通过USB连接电脑，电脑会弹出一个名为“MICROBIT”U盘，

MakeCode编辑器登陆网址：

<https://MakeCode.Micro:Bit.org> ，即可进入了编程页面。

Part 3

编程实验

输入栏
当按键被按下
时程序块

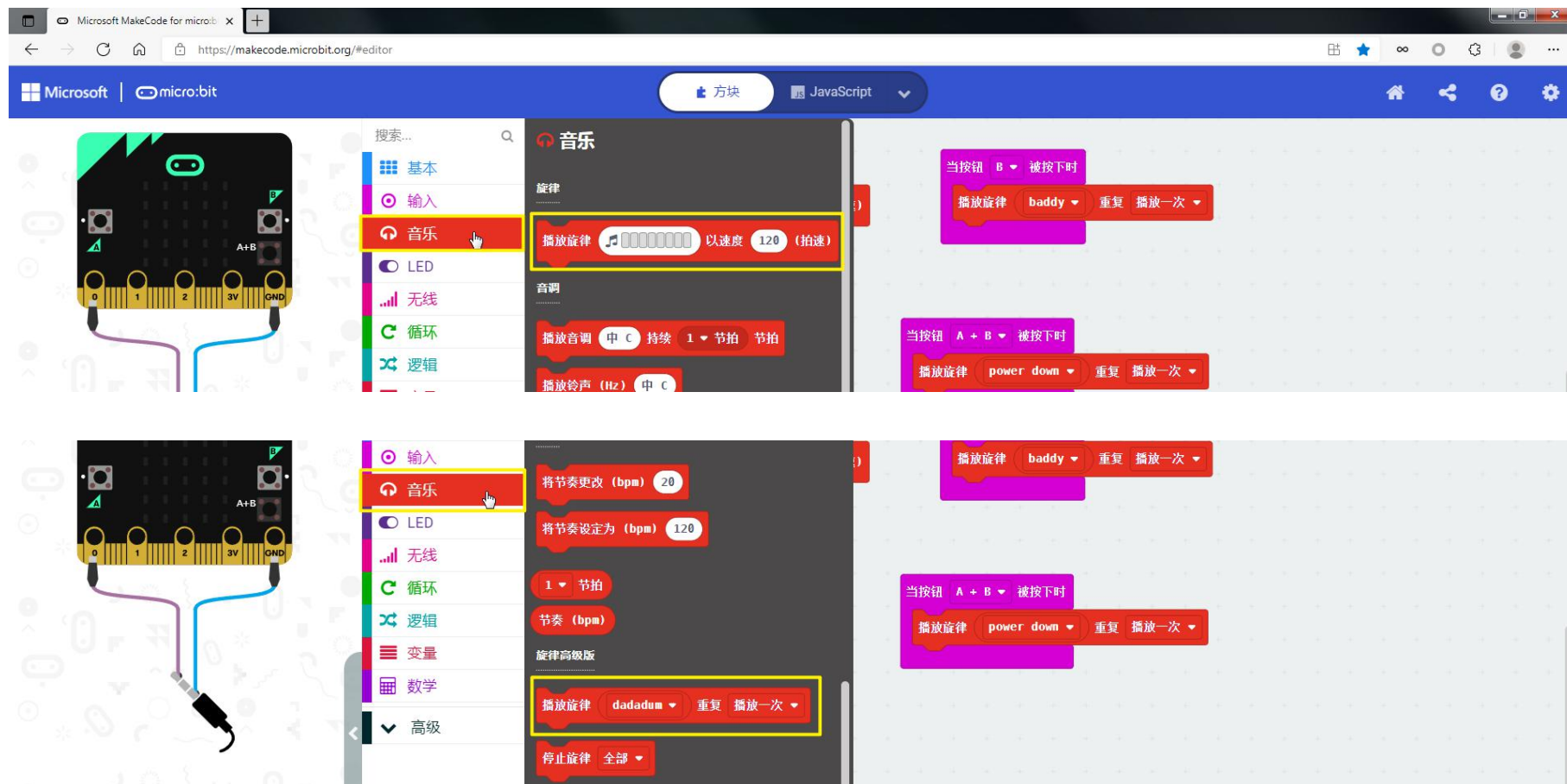
The screenshot shows the Microsoft MakeCode for micro:bit editor. The left sidebar has the 'Inputs' category selected. The main workspace contains a block-based program with the following structure:

- When button A is pressed: Play melody at speed 120 (BPM), repeat once.
- When button B is pressed: Play melody 'baddy', repeat once.
- When button A+B is pressed: Play melody 'power down', repeat once.

Part 3

编程实验

音乐栏
播放旋律（自定义旋律、预存旋律）程序块



Part 3

编程实验

组合程序

https://makecode.microbit.org/_5c5WLR1eqRTT

The screenshot displays the Microsoft MakeCode for micro:bit editor interface. On the left, a micro:bit board is shown with a USB cable connected. The central panel features a search bar and a category menu with options: 基本 (Basic), 输入 (Input), 音乐 (Music), LED, 无线 (Wireless), 循环 (Loops), 逻辑 (Logic), 变量 (Variables), 数学 (Math), and 高级 (Advanced). The main workspace contains the following code blocks:

- 当开机时 (When the board is powered on):**
 - 播放旋律 (Play melody) with a color-coded melody and a speed of 120 (拍速).
 - 播放旋律 (Play melody) set to "dadadum", with "重复" (Repeat) and "播放一次" (Play once) options.
- 当按钮 B 被按下时 (When button B is pressed):**
 - 播放旋律 (Play melody) set to "baddy", with "重复" (Repeat) and "播放一次" (Play once) options.
- 当按钮 A 被按下时 (When button A is pressed):**
 - 播放旋律 (Play melody) set to "生日歌" (Happy Birthday), with "重复" (Repeat) and "播放一次" (Play once) options.
- 当按钮 A + B 被按下时 (When buttons A + B are pressed):**
 - 播放旋律 (Play melody) set to "power down", with "重复" (Repeat) and "播放一次" (Play once) options.

At the bottom, there is a "下载" (Download) button and a status bar showing "课程6-听音乐" (Lesson 6 - Listen to Music).

Part 3



编程实验



将耳机连接到Micro:Bit控制板的P0、GND接口。
带上耳机，下载完成程序，
开机自动播放一段音频音乐。
按下按键A、B、A+B分别播放不同的音乐。
赶紧试试吧~~



Part 4 “

拓展思考

今天的课程你学会了吗？
如果学会了就给自己一个顶呱呱吧~
现在布置一个课后作业给你哦~

今天我们学习的内容是播放音乐，程序中的还有其他音乐选项，试试看是什么音乐，有没有你喜欢的？赶紧去了解下吧~~

开动你的小脑筋，试试看吧~





谢谢观看!

Micro:Bit 基础课程