

Name:

Mission 5 Assignment – Micro Musician

Computers and music go great together! This project brings together coding, electronics, and music. [Mission Reminders](#). Curious how it works? Check out this [slide deck](#).



Mission 5: Micro Musician ✓

Play music and sounds with the CodeX and learn about code readability.

You will create code during this lesson. When you encounter an error, make a note of what is happening and **document your debugging process** in the table below.

1. Complete Objective #1. Click on the wrench for “audio”.

How do speakers and headphones work?

How does a microphone work?

How does a speaker work?

What is a codec?

Click on the wrench for the CodeX Sounds collection. Paste a snippet of all built-in sounds:

2. Complete Objective #2.

What type of audio file will the CodeX play?

3. Complete Objective #3.

What is the purpose of blank lines?

4. Complete Objective #4 and Objective #5. Click on the wrench for comments.

Give a fact about comments.

What symbol is used for a single-line comment?

How can you create multi-line comments?

5. Complete the Quiz and Objective #6.

After you create a program that plays music, paste a snippet of your code:

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EXTENSIONS

Still have time? Make modifications to your code. Come up with your own idea, or try one of these:

- Create a string variable for the audio file and use it in your code
- Add your own audio files and use them in a program ([follow these instructions](#))
- Program several buttons to play music
- Before the music plays, add one or more of these:
 - Turn on the color of the pixels
 - Display an image
 - Fill the screen with a color

Debugging Table

As you create code, you will make mistakes. Keep track of the mistakes in the table below. Doing so will help you become a more confident programmer. Add rows to the table as needed.

Error message that is displayed	Actual bug	How you fixed it

SUCCESS CRITERIA:

- Create a program that plays an audio file on the CodeX
- Add readability to your program by adding blank lines and comments
- Debug any errors in the code and keep a debugging table