Name:	CodeAIR Unit 2 Remix Project Planning Guide

Remix Step 1: Review your code from Mission 4 and Mission 5

Mission 4: Flight Safety During the mission you completed 1 program: *safety.py*. Describe what the program does, and the programming concepts learned and used:	
Mission 5: Hovering Flight During the mission, you completed 6 programs: *Hover, Rangers, Ceiling, Theremin, HallMonitor, Avoidance*. Describe each one, and the programming concepts learned and used:	

Remix Step 2: Remix Project Concept

Discuss remix ideas with your partner. Then decide what you want to do. Describe your remix project:	

Remix Step 3: Plan your code. Answer the questions below to help you plan and design the remix project before you start to write code.

What variables and constants will you need? How will you use them? Add more if needed	Variable or constant name	How it will be used / data stored

What will you use the blue and pixel LEDs for? Will you need a variable, loop or if statement to control the LEDs?	
Will you incorporate sound into your project?	

How will you use a loop? How will you use an if statement? ● Add more if needed	Loop type / purpose	If statement / used for...

What flying will you have the drone do?	

Use another sheet of paper and write an algorithm for your project.

Remix Step 4: Write your code

Start a new file. Use the sandbox [icon] when you write the code. Write just a few lines at a time and test often. You can use your completed programs as a reference and to help you with the code.

Remix Step 5: Commenting and feedback

Documentation	● Make sure your code is readable by adding blank lines ● Add comments to explain sections of code

Peer feedback: Get feedback from two (or more) people. You can be one of the peer reviewers.

Peer Review #1 Name:	
Go through the checklist. Are all requirements met? If not, list any missing criteria.	
What do you like about the program – be specific!	
Give at least one suggestion. Begin with "what if" or "maybe you could"	
Peer Review #2 Name:	
Go through the checklist. Are all requirements met? If not, list any missing criteria	
What do you like about the program – be specific!	
Give at least one suggestion. Begin with "what if" or "maybe you could"	
Review the comments. Then take time to improve or add to your project.	
Post-Mission Reflection	
What concepts from Mission 4 and Mission 5 did you use in the remix project?	
What is something you will remember about this project?	

Unit 2 Remix Project Rubric Checklist:

- ☐ New file is used and filename is descriptive
- ☐ Use at least one variable
- ☐ Turns on at least one blue LED
- ☐ Turns on at least one pixel LED
- ☐ Uses at least one loop
- ☐ Uses at least one if statement
- ☐ Moves the drone using flying statements
- ☐ Uses data from at least one sensor
- ☐ Has a purpose and is different from required programs
- ☐ Includes comments and whitespace for readability
- ☐ Code runs with no errors