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| Name: | **CodeAIR Unit 1 Remix Project Planning Guide** |
| **Remix Step 1: Review your code from Mission 2 and Mission 3** | |
| **Mission 2: Introducing CodeAIR**  During the mission you completed 1 program: ***Lights1***. Describe what the program does, and the programming concepts learned and used: |  |
| **Mission 3: Pre-Flight Check**  During the mission, you completed 4 programs: ***CycleLEDs, Melody, SkyLights, RunningLights***. 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 will you use the blue LEDS for?  Will you need a variable, loop or if statement to control the LEDs? |  |
| What will you use the pixel LEDs for? Will you need a variable, loop or if statement to control the LEDs? |  |
| Will you incorporate sound into your project? If so, when will it play? How will you do it? |  |
| **Remix Step 4: Write your code** | |
| Start a new file. Use the sandbox  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 did you change in your project after reading the feedback? |  |
| What did you learn about programming from completing this project? |  |

**Unit 1 Remix Project Rubric Checklist:**

* New file is used and filename is descriptive
* Define and use a constant
* Define and use a variable
* Turns on at least one blue LED
* Turns on at least one pixel LED
* Uses a sleep delay one or more times
* Uses a while loop
* Uses a for loop
* Plays at least two notes using the speaker
* Is different from required programs
* Includes comments and whitespace for readability
* Code runs with no errors