|  |  |
| --- | --- |
| Name: | **Unit 1 Remix Project Planning Guide** |
| **Remix Step 1: Review your code from Mission 3 and Mission 4** | |
| Mission 3: Time and Motion  What does this program do? What programming concepts did you learn and use? |  |
| Mission 4: Get Moving!  What does this program do? What programming concepts did you learn and use? |  |
| **Remix Step 2: Remix Project Concept** | |
| Look over the remix suggestions. Discuss with a partner. Then decide what you want to do for your remix project. 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. | |
| How will your ‘bot move? Describe the direction and speed the ‘bot will move. Give a time specification as a starting point. |  |
| What LEDs will you use? Describe which LEDs you will light up, and when you will turn them on and off. |  |
| What notes will your ‘bot play? Describe when you want music, how many notes, and for how long. |  |
| **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 choose which 3D environment you want for the remix project. | |
| **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 created and filename is descriptive
* Moves the CodeBot forward and/or backward one or more times
* Turns the CodeBot one or more times
* Uses a sleep delay one or more times
* Turns on one or more LED lights
* Plays at least two notes using the speaker
* Includes comments and whitespace for readability
* Code runs with no errors