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| --- | --- |
| **Unit 4 Remix Log** | Name: |
| **Remix Step 1: Review your code from Mission 6 and 7** | |
| Mission 8: Navigation  What does this program do?  Mission 9: All Systems Go  What does this program do? |  |
| What programming concepts did you learn and use in each mission? |  |
| **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 what your remix project will do: |  |
| **Remix Step 3: Plan your code. What variables will you use in the project?**  Fill out the charts below. Use another piece of paper to design your program with a flowchart or pseudocode. | |
| What variables will you use in the project? Fill in the chart. You do not need to fill in every line, or you can add more. | |  |  | | --- | --- | | Variable Name | What it will be used for: | |  |  | |  |  | |  |  | |  |  | |
| What functions will you write? Describe each one. | |  |  | | --- | --- | | Function name | What it will do | |  |  | |  |  | |  |  | |
| What buttons will you use, and what will happen when pressed? | |  |  | | --- | --- | | Button | What will happen: | |  |  | |  |  | |
| **Remix Step 4: Write your code** | |
| Use the sandbox  when you write the code. Write just a few lines at a time and test often. | |
| **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 are some reasons you would give your friend for learning to program? |  |

**Unit 4 Remix Rubric Checklist:**

* Uses one or more variables, each with a descriptive name
* Reads one or more sensors: encoders, battery power, temperature, or accelerometer
* Uses the data from the sensor reading to control the CodeBot
* Controls one or more peripherals: LEDs, sound, motors
* Uses one or two buttons as input
* Defines and uses at least one function
* Defines and uses at least one list
* Includes something extra (sound, more than one sensor, more than one function, etc.)
* Code follows programming conventions of comments, readability, indenting, and capitalization
* Code runs with no errors