

Name:	Unit 5 Remix Project Planning Guide
-------	--

Remix Step 1: Review your code from Mission 12 and Mission 13.

Mission 12: King of the Hill
 What does this program do?
 What programming concepts did you learn and use in each mission?

--

Mission 13: Going the Distance
 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 your remix project:

--


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 an algorithm.

What global variables and constants 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 sensor(s) will you read?
 How will you record the data?

--

<p>What will you use for input (input() or buttons pressed). Describe the input and expected outcome.</p>																
<p>What functions will you write? Describe each one.</p> <p>Add more rows as needed.</p>	<table border="1"> <thead> <tr> <th data-bbox="675 327 956 390">Function name</th> <th data-bbox="956 327 1463 390">What it will do</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>		Function name	What it will do												
Function name	What it will do															
<p>Extras: What else will you need for your program? (sound, LEDs, etc.) Describe extra code you will use in the space provided:</p>																
<p>Remix Step 4: Write your code</p>																
<p>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.</p>																
<p>Remix Step 5: Commenting and feedback</p>																
<p>Documentation</p>	<ul style="list-style-type: none"> • Make sure your code is readable by adding blank lines • Add comments to explain sections of code 															
<p>Peer feedback: Get feedback from two (or more) people. You can be one of the peer reviewers.</p>																
<p>Peer Review #1 Name:</p>																
<p>Go through the checklist. Are all requirements met? If not, list any missing criteria.</p>																
<p>What do you like about the program – be specific!</p>																
<p>Give at least one suggestion. Begin with “what if” or “maybe you could”</p>																

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 was your initial idea for the project? How did this idea change over time while working on the project?	
What was challenging about this project? Why was it challenging, and how did you show grit?	

Unit 5 Remix Project Rubric Checklist:

- Filename is descriptive
- Uses global and local variables appropriately
- Reads one or more sensors: wheel encoder 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
- Uses at least one list or tuple for data from a sensor
- CodeBot drives to a given destination
- Includes something extra (sound, more than one sensor, more than one function, both buttons, etc.)
- Code follows programming conventions of comments, readability, indenting, and capitalization
- Code runs with no errors

