

Name:	<b>Remix 3 Project Planning Guide</b>
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**Remix Step 1: Review your code from Mission 7, 8 and 9**

Mission 7: Solar Tracking! What does this program do? What programming concepts did you learn and use?	
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Mission 8: Prepare Lander! What does this program do? What programming concepts did you learn and use?	
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Mission 9: Automatic Garden! What does this program do? What programming concepts did you learn and use?	
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**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:	
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**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 peripherals will you use, and what is their purpose:	Peripheral:	Used for:

What variables and constants will you need? Give their name and value or assignment.	Variable / Constant	Value or assignment

Write an algorithm for your code. What are the steps for completing the task?

What functions will you create to accomplish sub-tasks of the algorithm?

**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.

**Remix Step 5: Commenting and feedback**

Documentation	<ul style="list-style-type: none"> <li>• Make sure your code is readable by adding blank lines</li> <li>• Add comments to explain sections of code</li> </ul>
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**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”	
<b>Peer Review #2 Name:</b>	
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.	
<b>Post-Mission Reflection</b>	
What peripherals did you use for this remix?	
What new programming concepts did you use for this remix?	
What advice would you give someone who is beginning to write code?	

### Unit 3 Remix Project Rubric Checklist:

- An LED or the NeoPixel ring is used, with appropriate constants and function
- At least two additional peripherals are used, with appropriate constants and functions
  - Servo
  - Light sensor
  - Object sensor
  - Microswitch
  - Relay
  - Moisture sensor
- Uses at least one new programming concept (not limited to these examples)
  - Nested if statements
  - Finite state machine with variable that tracks the state
  - Button press with break
  - Timeout feature of a loop
- Includes something extra (sound, additional peripherals, screen display, etc.)
- Includes comments and whitespace for readability
- Code runs with no errors

