Manuals+ — User Manuals Simplified.

verizon Ideate Advanced Robotics Project User Manual

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Verizon Innovative Learning Lab Program

Name: _____ **Date:** _____ **Class Period:** _____

Instructions: Complete each step below to create rough sketches of your three favorite ideas, then choose your top idea and sketch a plan for your prototype and pseudocode for your programming challenge.

1. **Review: What was your problem statement?**

   Write your problem statement from Lesson 2 below. It should be in the form of "I need to create a _____

   using RVR so that _____ can _____,

2. **What solutions did you ideate?**

   In the space below, answer these two questions:

   a. What were your three winning ideas from your brainstorming session in this lesson?

   b. How does each idea solve your user's problem?

3. **Sketch your ideas!**

   Draw a rough sketch of each idea below. (You can also draw your ideas on a separate piece of paper and upload a photo of your drawings).
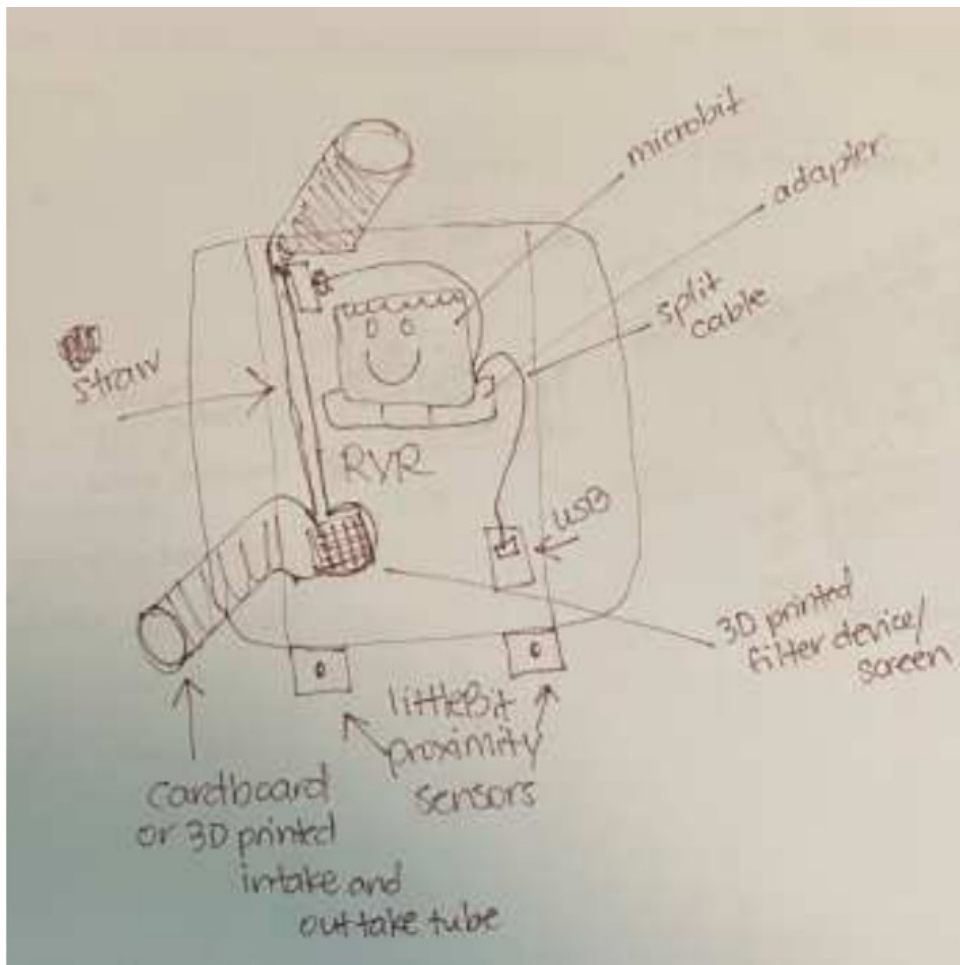
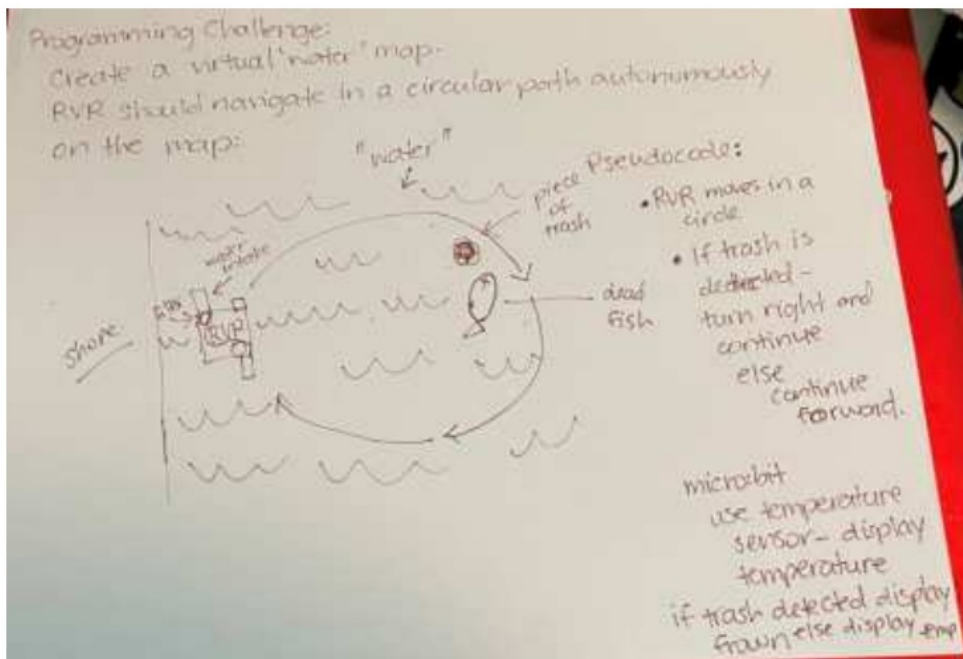   For each sketch, consider the following:

   - What is the goal of your design?
   - Does your design use at least two inputs and two outputs?
   - What is the attachment for your RVR?
   - Will you use the **Micro:** bit, the littleBits or both?
   - How does your robot solve your user's problem?

4. **Let's Look at an example of a prototype plan, programming challenge and pseudocode**

   In step 5, you will choose your favorite design and sketch out a plan for your RVR. Your prototype plan should include the following information:

   - A picture of your RVR
   - Label the Micro:bit and the littleBits that you are using
   - Label the 3D printed or upcycled attachment that you are creating
   - Add any other details that you think will help someone understand your design
   - If you are designing a 'challenge map' sketch and include this as well as your pseudocode

Programming Challenge and Pseudocode Sketch Example:

5. **Create your own prototype plan and pseudocode/programming challenge sketch.**

Use the space below to sketch your own prototype plan! You may choose to sketch your plan on a piece of paper and upload a photo instead. Remember, your prototype plan should include the following information:

- A sketch of your RVR
- Label the Micro:bit and the littleBits that you are using
- Label the 3D printed or upcycled attachment that you are creating
- Add any other details that you think will help someone understand your design
- If you are designing a 'challenge map' sketch and include this as well as your pseudocode

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