


## Lesson 1 — Robot Basics: Meet Your Robot

### Engage:

<p>Check out the two views of your RVR+. Draw arrows and label the following components of the robot.</p> <ul style="list-style-type: none"> <li>● Power button</li> <li>● Wheels</li> <li>● Battery compartment</li> <li>● Sensors</li> <li>● Lights</li> </ul>	
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### Explore:

Time to practice driving your robot! Let's power it up:

- (1) **Power up your RVR:** Press the power button. The RVR's lights will turn on.
- (2) **Control your RVR:** Go to <https://edu.sphero.com/code> on one group member's device.
- (3) **Find your RVR's name:** Look at the robot's underside for a name like "RVR-XXXX".
- (4) **Connect to your RVR:**

- (a) Click the "> Bluetooth CONNECT" button at the top right of your control screen.



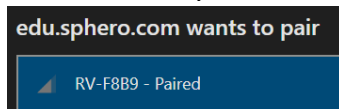
- (b) Select "SPHERO RVR/RVR+" from the pop up menu.



- (c) Click "CONNECT"



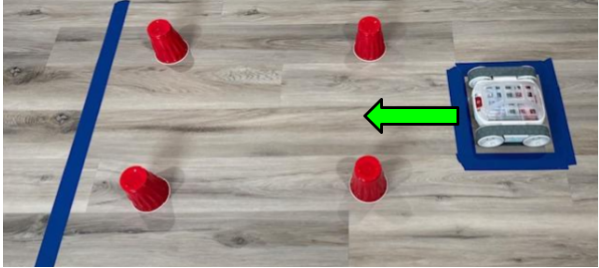
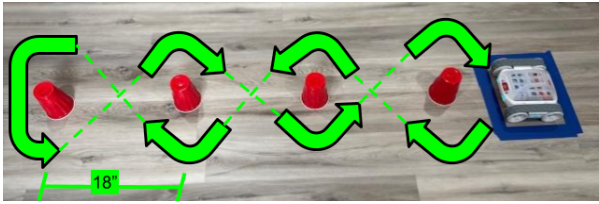
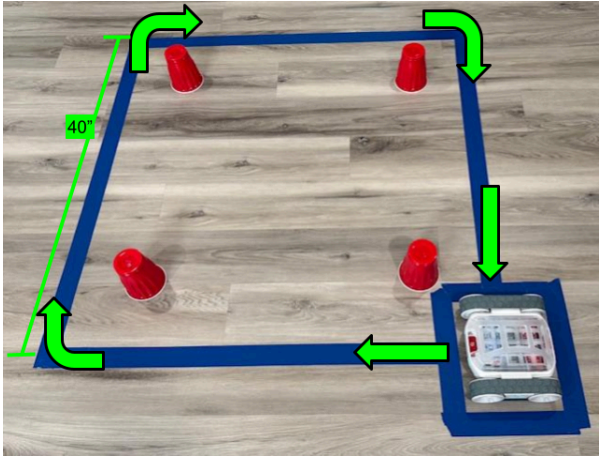
- (d) Select the entry that matches your robot's name, and click "Pair"



- (e) To manually drive your robot, click the "DRIVE" button in the top right. Use the WASD keys on your keyboard to control the RVR



There are three training courses each driver must complete for practice:

	<p><b>(1) Stop on a Dime</b></p> <p>Drive your robot forward, and try to stop as close to the line as you can without touching it!</p>
	<p><b>(2) Slalom</b></p> <p>Zig zag your way through the obstacles and return to the starting point. Don't touch them!</p>
	<p><b>(3) Perfect Square</b></p> <p>Follow the lines and drive an exact square. You should end up exactly where you started!</p>

**Elaborate:**

<p>Startup sequence requirements:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Turn lights on</li> <li><input type="checkbox"/> Drive forward</li> <li><input type="checkbox"/> Make a sound</li> <li><input type="checkbox"/> Flash lights</li> <li><input type="checkbox"/> End program</li> </ul>	<p>Write down the blocks used in your sequence:</p>
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If you get done quickly, add some more excitement to your startup sequence! You could make the robot dance, add a few turns, or something else!

