

# MISSION IMPOSSIBLE

**Mission Commander:** \_\_\_\_\_

Once one of the “Captains” in the room has watched your robot successfully complete a mission, they will give you the “stamp of approval” on this sheet.

***MISSION LIST***	APPROVAL STAMP
<b>MISSION ONE</b> Make your Robot go forward for 4 seconds, then drive backwards right back to where it started.	
<b>MISSION TWO</b> Make your Robot go forward until it hits a wall, and then drive backwards to where it started	
<b>MISSION THREE</b> <b>A)</b> Make Your Robot Turn 180 degrees (using only one wheel moving) Record the command and time you used: _____  <b>B)</b> Make your Robot turn 180 degrees (using both wheels) Record the command and time you used: _____ Now, using what you learned from part B, make your robot spin around 6 times!	
<b>MISSION FOUR</b> Measure how many inches your robot travels forward in one second: _____  In the hallway, there is a starting line. There is an unknown and potentially dangerous object 12.5 feet away. You must write a program that will get you as close as possible to the object in order to “check it out”, without touching it. You only get three attempts.  Measure and record the closest distance you were able to get to the object in this space: _____	
<b>MISSION FIVE</b> Standing still, start your robot in front of your feet. Make your robot go forward, turn around, and come back until it hits your foot (You must stay standing still!).	
<b>MISSION SIX</b> Go forward until you touch a wall, turn around, and come back right to where you started. (Hint: Make sure the wall doesn’t get in the way of your turn!)	
<b>MISSION SEVEN</b> Complete a ROBOT-MAZE!!! (The maze is drawn on large paper and taped on the floor)	
<b>MISSION EIGHT</b> Drawing Challenge! Use the robot pen attachment to draw the following shapes. Check off each one you were able to complete: Circle __, Square __, Triangle __	
<b>MISSION NINE</b> Drawing Challenge II! Using the pen attachment, try and draw: Your Initials __, A pair of eye-glasses __, Your own design __	
<b>MISSION TEN</b> Robot Marathon! Program your robot to complete the course marked out with orange cones in the hallway.	