

Program a simple pathfinder robot using RCX code (20%)

Due at the start of class Monday week 8

Students must go through the training exercise provided by the NXT Robotics Invention System before begin the following exercise.

Please perform the following functions *,

- Program robot to go forward for 2.5 second and set the power at 7.
(please check which output ports are connected to the motors)
- Program robot to go backward in 3 seconds and set the power at 1 (can your robot move?)
- Program robot to maneuver a 30 o turn
(Surface roughness and battery power affect the power setting and time duration)
- Program robot to avoid obstacle in the left or right front direction and also in between the two tactile sensors
- Program robot to halt the robot for 5 seconds when the light intensity reach 50%.
- Program you robot to pick up a red ball when see the red ball either using camera or light sensor.

If you have successfully perform the above procedures, you are 80% ready for the two programs you need to do for the competition.

Please show your robot to your instructor or TA when the robot is ready.