Mr. Demchak Jockey Hollow Middle School Technology Education



**NAMES:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ PERIOD:\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

*LEGO Programming License*

|  |  |  |  |
| --- | --- | --- | --- |
| Mission 1**Play sound**- Your robotmust make a sound(the laugh is my fav) | Mission 2**Use display-** Screen Shows an image | Mission 3**Drive forward-** Your robot mustDrive forward | Mission 4**Reverse-**Your robot mustDrive in reverse |
| Mission 5**Accelerate-**Your robot mustDrive forward, then Increase speed | Mission 6**Curve Turn**Your robot mustComplete a curvedturn | Mission 7**Point Turn-**Your robot must make A 90 degree turn | Mission 8**Drive in Square-**Your robot mustdrive in a square (rectangles don'tCount) |
| Mission 9**Parking Bay-**Your robot mustComplete a curved turnMake a sound, backup,And show an image on screen | Mission 10**Detect Sound**Your robot mustGo forward, then stop At the clap of your hands | Mission 11**Sound Control**Your robot mustChange directions Based on a sound | Mission 12**Detect Distance**Your robot willDrive forward, thenStop before hitting A fixed object |
| Mission 13**Distance Control**Your robot will See an object, and Back away | Mission 14**Detect Dark Line**Your robot will drive Forward, and will Stop after finding The dark line | Mission 15**Follow A Line**Your robot mustFollow a dark line | Mission 16**Sensor Bumper-**Your robot mustContinue to travel, Until your bumper Sensor is pressed |

Mr. Demchak Jockey Hollow Middle School Technology Education

**NAMES:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ PERIOD:\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**



*LEGO Advanced Programming License*

|  |  |  |  |
| --- | --- | --- | --- |
| Mission 17**Speed Control-** YourRobot's speed will Change with the Volume of your voice 86 88 90 92 | Mission 18**React to distance-**Your robot will run Away from you, but Dont worry it still Likes you | Mission 19**React to Light-**Your robot will see The light from your Phone and drive faster | Mission 20**Rotation Sensor-**Your robot will Display the rotationsOf its wheels |
| Mission 21**NXT Buttons-**Control your robot'sArm by hitting the Arrow Buttons 94 96 98 100! | Mission 22**Sound Control-**When you create noise, Your robot will moveOne direction, louderWill result in anotherdirection | Mission 23**Bump Counter-**Your robot will countThe amount of times You hit the bumper | Mission 24**Motor Bumper-**Your robot will Travel into a wall, Reverse then driveaway |