Mr. Demchak Jockey Hollow Middle School Technology Education



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

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*LEGO Programming License*

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| Mission 1  **Play sound**- Your robot  must make a sound  (the laugh is my fav) | Mission 2  **Use display-** Screen  Shows an image | Mission 3  **Drive forward-**  Your robot must  Drive forward | Mission 4  **Reverse-**  Your robot must  Drive in reverse |
| Mission 5  **Accelerate-**  Your robot must  Drive forward, then  Increase speed | Mission 6  **Curve Turn**  Your robot must  Complete a curved  turn | Mission 7  **Point Turn-**  Your robot must make  A 90 degree turn | Mission 8  **Drive in Square-**  Your robot must  drive in a square  (rectangles don't  Count) |
| Mission 9  **Parking Bay-**  Your robot must  Complete a curved turn  Make a sound, backup,  And show an image on  screen | Mission 10  **Detect Sound**  Your robot must  Go forward, then stop  At the clap of your  hands | Mission 11  **Sound Control**  Your robot must  Change directions  Based on a sound | Mission 12  **Detect Distance**  Your robot will  Drive forward, then  Stop 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 must  Follow a dark line | Mission 16  **Sensor Bumper-**  Your robot must  Continue to travel,  Until your bumper  Sensor is pressed |

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*LEGO Advanced Programming License*

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| Mission 17  **Speed Control-** Your  Robot'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 rotations  Of its wheels |
| Mission 21  **NXT Buttons-**  Control your robot's  Arm by hitting the  Arrow Buttons  94 96 98 100! | Mission 22  **Sound Control-**  When you create noise,  Your robot will move  One direction, louder  Will result in another  direction | Mission 23  **Bump Counter-**  Your robot will count  The amount of times  You hit the bumper | Mission 24  **Motor Bumper-**  Your robot will  Travel into a wall,  Reverse then drive  away |