

## Robotics Turns Worksheet

**Essential Question:** How do I create an equation that will represent the relationship between wheel rotations in a point turn and degrees the Robot Turns.

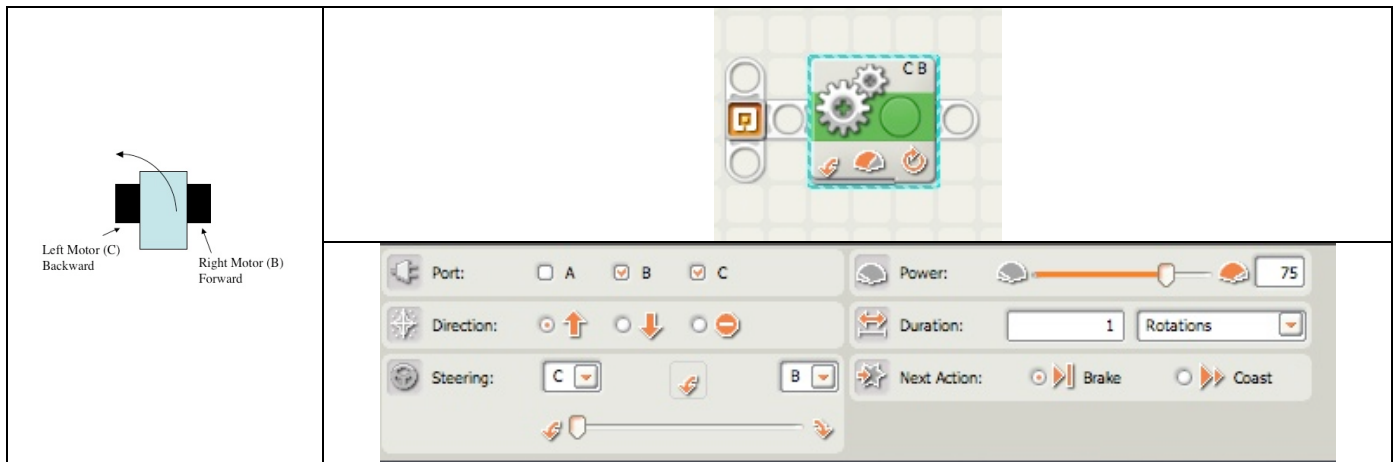
**Process:**

1. Create a Data Table to find Rotations for a 90 Degree, 180 Degree, and 360 Turn
2. Create an Equation for the Data
3. Find the Rotations needed for a 45 Degree Turn

**Motor Blocks Review:**

To have the Robot do a Point Turn:

1. Drag the Direction Arrow all the way to the left or the right in the Details Box of a Motor Block



**Step 1: Create a Data Table to find Rotations for a 90 Degree, 180 Degree, and 360 Degree Turn:**

Rotations:	Degree Turns:
	90
	180
	360

**Step 2: Create an Equation for the Data:**

**Step 3: Test the equation by calculating the Rotations needed for a 45 degree turn.**

**Extension: Using the Data from Distance and Turns Worksheets – calculate the program needed to finish Maze #2 and Maze #1**