

Engineer's Name: _____

Challenge: Program the scribble robot to write. Do your first program using the following parameters.

Action	Left wheel (red)	Right wheel (green)	Time in seconds	Measured distance in mm or angle
Move forward	+75	+75	1	
Turn right	+50	-50	2	
Move forward	+50	+50	1	
Turn right	+50	-50	2	
Move Forward	+75	+75	0.5	
Turn right	+50	-50	2	
Move Forward	+50	+50	0.5	

Determine the speed of the robot based on data obtained above.

Robot speed number	Speed in mm/sec
+75	
+50	
+100	
+25	

Challenge: Put your new knowledge to practice by programming the robot to draw:

1. a square with 80 mm per side
2. a circle of 100 mm of diameter
3. solve a maze that you can manually draw on a piece of paper, example below

