AP CSP Python with Robots **Mission 3 Obj 7-9 Assignment**	**Name:**

Mission 3 Introduction

Re-read the introduction and project goals. During this assignment, you will complete goals 4 and 5.

Mission 3 Objectives 7-9

Complete the Quiz. How did you do? Are there topics or concepts you need to review?	Answers will vary
Complete Objective 7. What is the code to start and stop the motors? Click on <u>Import</u> to add it to your toolbox. What is a *wildcard*?	motors.enable(True) motors.enable(False) Wildcard: The * character, which is short for "everything".

Try several different wheel power settings and sleep delays. Record the distance traveled for each setting.

Wheel power setting	Sleep delay	Distance traveled
Students fill out the chart		

Complete Objective 8. Click on <u>Comments</u> to add it to your toolbox.	

Try several different wheel power settings and sleep delays. Record the rotation (right-clockwise, or left-counter clockwise). Give an approximate turn angle in degrees. What settings are needed for 90 degrees clockwise?

Left Wheel power	Right Wheel power	Sleep delay	Rotation and angle
Students fill out the chart			

After Objective 8, submit your ***MoveOut*** program to the teacher.

Complete Objective 9. What is an algorithm? Follow the algorithm in the instructions to move your 'bot in a square. The size of the square (delay when moving forward) is up to you.	Algorithm: a precise sequence of instructions that the computer can follow exactly, one step at a time.

After Objective 9, submit your **NavSquare** program to the teacher.