“I can program a bot.” Say it. Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Today you will write a program to have a robot move autonomously.

**Given:**

This robot has four wheels, one bump switch, and two motors.

The bump switch is plugged into Digital 1.

The motors are as follows:

* VEX 269 Motor
* rightMotor = port 2, leftMotor =port 9.
* *rightMotor forward full = 127 leftMotor forward full = -127*

**Tasks:**

You will have to download a PLTW Template from my website.

You will have to set up your sensor and motors.

*You must include pseudo-code and annotation.*

**Programming Challenge:**

The robot must start when the bump switch is pressed.

The robot will have to move forward for five seconds at full power.

The robot will stop for two seconds.

The robot will then move in the reverse direction for three seconds at half power.