Name:	Date:	Class:

## Day 5: Programming Robot Movements Sheet Answer Key

Group Members:		
Translating EMG [	Data to Robot Movements	

You will program both micro:bits in the <u>Micro:bit MakeCode editor</u> online. Use the following tips to write your code:

- The micro:bit attached to your muscle sensor should be programmed to send EMG data to your robot using radio signals. Review the micro:bit page on radios and pins for more information.
  - Use an if-else statement to set a threshold for which numbers in the EMG data should trigger movement in your robot. If your data is over that threshold, it should send a specific radio signal, and if it's below, it should send a different signal.
- The micro:bit attached to your robot should be programmed to move the robot forward based on the
  radio signals it receives. Review the <u>Cutebot wiki</u> for more information on programming the robot to
  move.

Paste screenshots of the code for each micro:bit below.

Code may vary. As long as the code accomplishes the task of moving the robot in response to EMG signals, it is acceptable. A sample program is shown below.





## **Muscle Sensor Micro:bit Code:**

## **Robot Micro:bit Code:**



