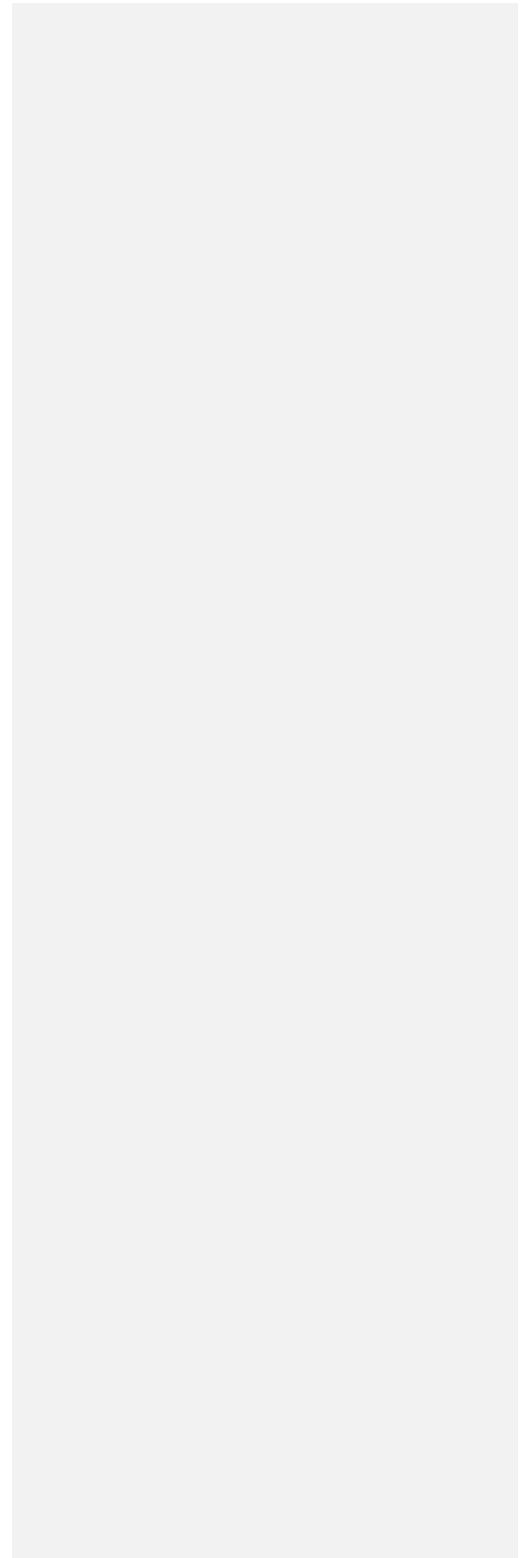# Equipment

- Sound sensor
- Arduino
- Wire
- Soldering equipment
- Header Pins

Sensor Worksheet No. 2

Timing Window

To get a a good sound reading, we need to take several amplitude measurements over time. You will need to write code to take amplitude measurements over a sampling time. Practice writing timing code with your Arduino and an LED.

Calibration

You must calibrate your sound sensor to a known dB level before using it. Determine with your group where you should make your calibration. To calibrate, write down the voltage output for the measured dB level.

Location _____

Measured Voltage _____

Measured dB _____

Testing

Once you have your calibration values, use the calibrateSensor(voltage, dB) function to calibrate your sensor. Look at the output of your program and compare your sensor's measured dB to the phone's in the table below for a quiet, normal, and loud sound.

Sensor Output (dB)	Phone Output (dB)

You can also test the limits of your sensor with a speaker (what is the loudest sound you can measure, and what is the quietest?).