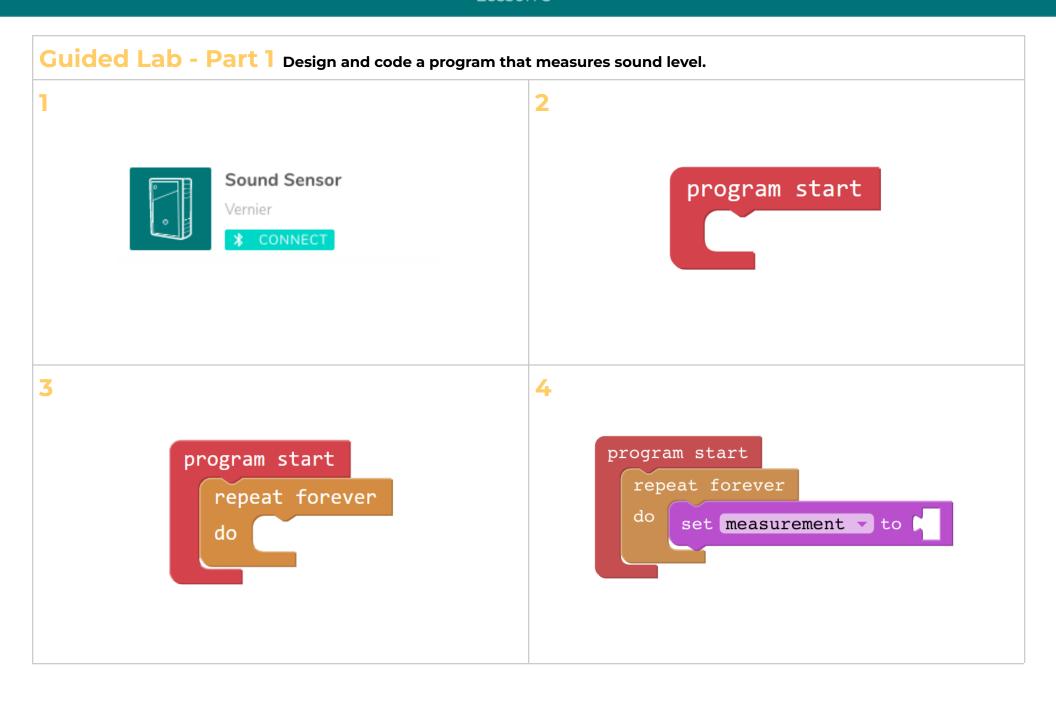
Sound Level Stoplight Lesson 3

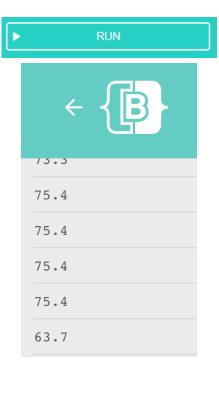






```
program start
          repeat forever
              set measurement v to get Sound Sensor A v weighted sound level
6
       program start
          repeat forever
              set measurement v to [ get Sound Sensor A v weighted sound level
              print 666
```

```
program start
  repeat forever
  do
      set measurement v to c get Sound Sensor A v weighted sound level
              measurement 🔻
      print |
```



program start
repeat forever
do set measurement to get Sound Sensor A weighted sound level
print measurement wait for 0.5 seconds

program start

repeat forever

do set measurement to get Sound Sensor A veighted sound level

print measurement v

wait for 0.5 seconds

2

```
repeat forever

do set measurement v get Sound Sensor A v weighted sound level

print measurement v

wait for 0.5 seconds

if

do

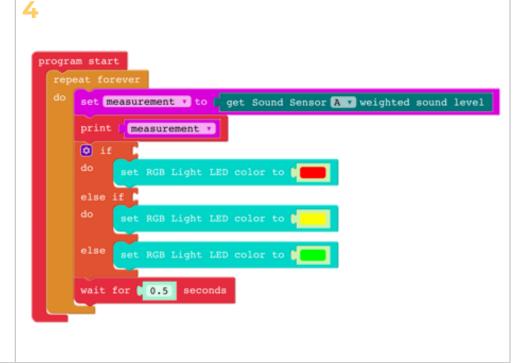
else if

do

else if
```

3





```
program start
program start
     set measurement v to get Sound Sensor A v weighted sound level
                                                                            set measurement v to get Sound Sensor A v weighted sound level
     print measurement v
                                                                            print ( measurement v
                                                                            🧔 if
     wait for 0.5 seconds
                                                                                      measurement > V 85
              set RGB Light LED color to
           set RGB Light LED color to
                                                                                      measurement > 7 75
              > 7
                                                                                  set RGB Light LED color to
           set RGB Light LED color to
                                                                                 set RGB Light LED color to
          set RGB Light LED color to
                                                                            wait for 0.5 seconds
```

Extension Activities Choose your own!

Option 1 Google Sheet

Record sound level data to a Google Sheet. Collect sound data in various rooms or periods throughout the day. Analyze how and why sound levels changed throughout the day.

Option 2 Buzzer

Trigger a Buzzer block as additional feedback when the room's sound level grows too large. Encourage students to discuss a reasonable wave amplitude and frequency for the buzzer sound.

Option 3 Prototype

Using classroom materials or 3-D printed materials, 3 RGB LEDs, and the Sound Sensor, design a Sound Level stoplight prototype for daily use.