

## Experimentation:

Step1: Set up the Arduino-based CO + temp. & humidity sensor (ABCOTH sensor).

Step 2: Verify measured values with standard measurements.

Step 3: Perform Candle Test



1. Light candle

```
Humidity: 62 %  
Temperature: 22 C
```



2. Suffocate flame in  
glass

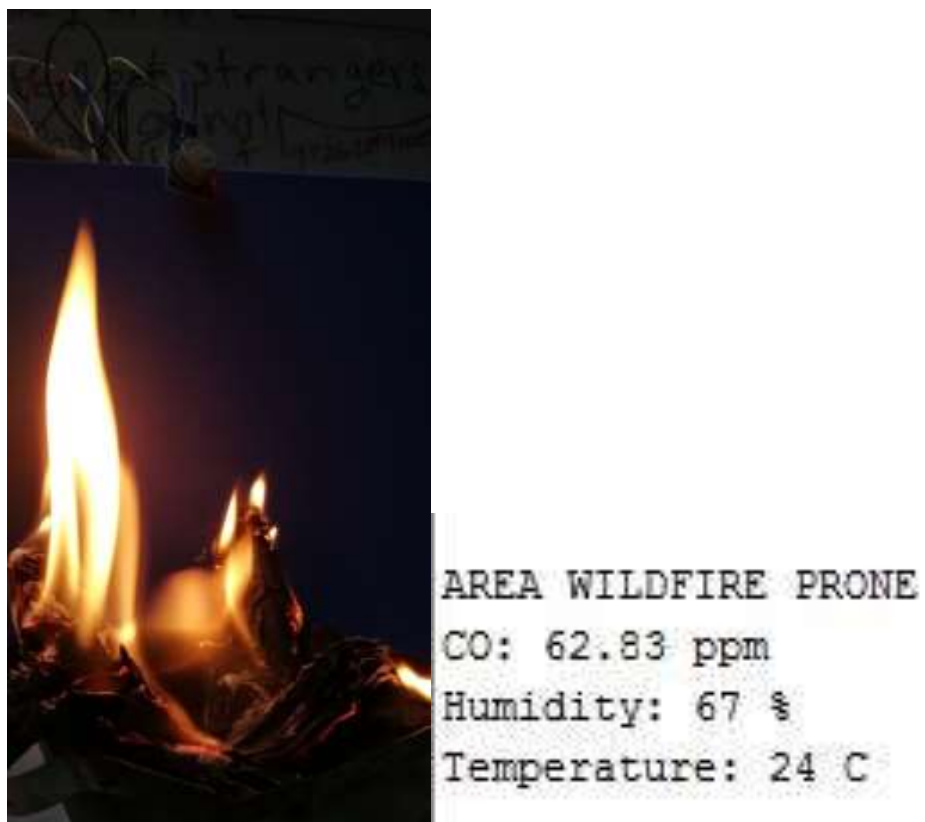


3. Insert CO sensor into  
closed atmosphere with  
smoke

```
CO: 56.39 ppm  
Humidity: 62 %  
Temperature: 22 C
```

```
CO: 57.62 ppm  
Humidity: 62 %  
Temperature: 22 C
```

Step 4: Perform controlled experiment in room using fire.



The sensor is located about 1.5 ft away from the small fire lit.