



A Spectral Mystery

Student directions

Part 3

You will find tubes with labels on them. One tube is labeled “Mystery” tube. Another tube is labeled “Air.” It is filled with the air that we breathe. Your job is to look at the spectra of all of the tubes, figure out what is inside “Air” and what is inside the “Mystery” tube. DO NOT remove the tubes without teacher assistance. They may get very hot, and could burn you.

Light Source Description	Color with Naked Eye	Draw Spectrum
Nitrogen		
Oxygen		
Other (Write name in space)		
Air		
Mystery tube		

1. What do you think is inside “Air?”
2. What do you think is inside the “Mystery” tube?
3. How do you know what is inside of the “Air” and “Mystery” tubes? Explain.