

### ATOMIC SPECTRA WORK SHEET:

1. What are continuous spectra? Using visible light and a spectrometer or prism, explain it.
2. Answer the following question after observing the fluorescent and incandescent light sources and compare. What does this suggest about the light produced by each of the two sources?
3. How can you explain the formation of the spectra by the incandescent light using Bohr's theory?
4. Draw the different spectra that you have observed starting with hydrogen and label them.
5. Why are the spectral lines seen for hydrogen the same every time we observe it?
6. Why spectral lines are called finger print of an atom or element?