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Atomic Fingerprints Pre-Lab

1. Key Terms
   1. light
   2. visible spectrum
   3. frequency
   4. wavelength
   5. photon
   6. continuous spectrum
   7. atomic fingerprint
   8. line spectrum
   9. Balmer Formula
   10. Rydberg Equation
2. Color Arrangement
   1. V I B G Y O R
   2. R O Y G B I V
   3. R O Y G B I V
3. Wavelengths observed
   1. 430nm
   2. 480nm
   3. 650nm
4. Colors of the three lines
   1. violet
   2. blue-green
   3. red
5. Energy level drop
   1. 1 electron drops: 1 photon
   2. 10 electrons drop: 10 photons
   3. Don’t touch host gas discharge tube in power supply unit
   4. Don’t charge electricity discharge tube in power supply