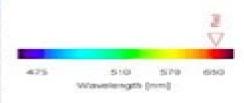
Atomic Emission Spectra Lab

Directions: From the lab video, record the color of flame produced by each of the metals. Use the chart provided to find the approximate wavelength of the light of each flame using the chart.

- Before beginning, record the atomic number of the metal in each salt listed below (the metal is the first element listed).
- Use the equation c = n · λ (speed of light = frequency x wavelength) to calculate the frequency.
 Be sure to convert the wavelength of meters before you put it into the equation. (1 m = 1 x 10° nm)
- Use the frequency in the equation E = h · v (h = 6.63 x 10⁻³⁴ J·s) to calculate the energy of the light.

*** You must show your work on all calculations to receive credit! Take a picture of your work and upload it to Canvas with your Lab. You can submit more than one document. ***

Color	Wavelength (nanometers)				
Red Light	~650 nm				
Orange Light	~590 nm				
Yelllow Light	^570 nm				
Green Light	~510 nm				
Blue Light	~475 nm				
Indigo Light	~445 nm				
Wiolet Light	~400 nm				



Metal Ion Tested	Atomic Number	Color of Flame	Wavelength (m)	Erequency (Hz)	Energy (J)
KCI	19	violet	4.00×10^-7m	7.5×10^14Hz	4.97×10*/-19
CuCl ₂	29	green	5.10×10^-7m	5.9x10^14Hz	3.91×10*-19
CaCl ₂	20	orange	5.90×10^-7m	5.1×10^14Hz	3.38×10^-19
NaCl	11	yellow	5.70×10^-7m	5.3×10*14Hz	3.51×10^-19
SrCl ₂	38	red	6.50×10^-7m	4.6x10^14Hz	3.05×10*-19
LiCI	3	red	6.50×10^-7m	4.6x10^14Hz	3.05×10^-19

Part 2- Describe the incandescent and fluorescent lights and how they look different through the spectrum filter.

<u>Virtual Chem Lab 5 Atomic Emission Spectra</u>

N Colangelo

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