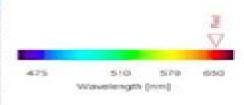
Atomic Emission Spectra Lab

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
Violet 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
			1		

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>

Michael Brown

Virtual Chem Lab 5 Atomic Emission Spectra:

Instructor's Manual Brian F. Woodfield, Matthew C. Asplunc, 2006 NEW Click here to visit the Virtual ChemLab Frequently Asked Ouestions FAO document This Instructor's Lab Manual Workbook is similar to the Student Lab Manual Workbook and additionally contains an overview of the full capabilities of the Site License version of Virtual ChemLab installation instructions and the answers for the laboratory assignments provided in the student laboratory workbook This product is available within Virtual ChemLab General Chemistry Instructor Lab Manual Workbook and Student CD Combo Package v2 5 0 13 228010 8 Valuepack and or should be ordered in conjunction with Virtual ChemLab General Chemistry General Chemistry Ralph H. Petrucci, 2007 General Chemistry Principles Instructor Site License CD v2 5 0 13 185749 5 and Modern Applicationsis recognized for its superior problems lucid writing precision of argument and precise and detailed treatment of the subject Popular and innovative features include Feature Problems follow up A and B Practice Exercises to accompany every in chapter Example Focus On application boxes and new Keep in Mind marginal notes Every new copy of the Ninth Edition comes with a Student Media Pak which includes access to the Companion Website with Grade Tracker available at http www prenhall com petrucci the Student Accelerator CD and the Virtual ChemLab Workbook and CD This package includes Basic Media Pack Wrap Companion WEbsite Grade Tracker Access Code Card Virtual ChemLab General Chemistry Student Lab Manual Workbook Index Medicus, 2002-12 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings **ERDA Energy Research Abstracts** United States. Energy Research and Development Chemistry, Administration, 1976 ERDA Research Abstracts United States. Energy Research and Development Administration, 1976

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