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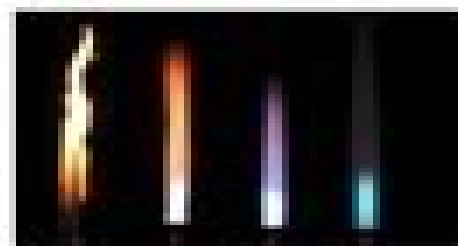
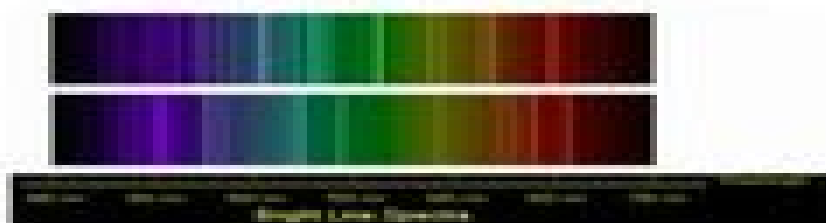
Flame Test Lab

Essential Questions: What happens when different cations are exposed to a flame?

Reading Questions	Class	Class	Evidence	Reasoning	Model
/10	/10	/10	/5	/5	/10

Materials:

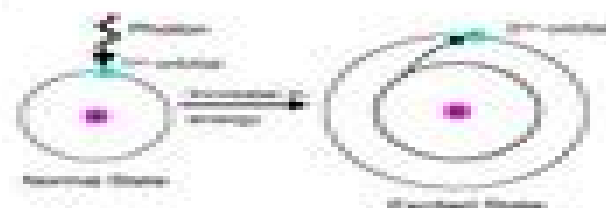
- 1) Bunsen Burner 2) Q-tips 3) Flint lighter 4) Various c Chlorides 5) 100 mL beaker



Background Information:

If you excite an atom or an ion by very strong heating, electrons can be promoted from their normal unexcited state into higher orbitals. As they fall back down to lower levels (either in one go or in several steps), energy is released as light. Each of these jumps involves a specific amount of energy being released as light energy and each corresponds to a particular wavelength (or frequency). As a result of all these jumps, a spectrum of lines will be produced, some of which will be in the visible part of the spectrum. The color you see will be a combination of all these individual colors.

In the case of sodium (or other metalloids), the jumps involve very high energies and these result in lines in the UV part of the spectrum which your eyes can't see. The jumps that you can see in flame tests come from electrons falling from a higher to a lower level in the metal atoms. So if, for example, you put sodium chloride which contains sodium ions, into a flame, where do the atoms come from? In the hot flame, some of the sodium ions regain their electrons to form neutral sodium atoms again. A sodium atom in an unexcited state has the structure 1s² 2s² 2p⁶ 3s¹, but within the flame there will be all sorts of excited states of the electrons. Sodium's familiar bright orange-yellow flame color results from promoted electrons falling back from the 3p¹ level to their normal 3s¹ level.¹



¹University of York, 2010, May 15. Flame Tests. Retrieved from <http://spectroscopy.groups.gly.ac.uk/teaching/chemistry/FlameTests/FlameTests.htm>

Flame Test And Electron Configuration Lab Answer

Valentine Korah



Flame Test And Electron Configuration Lab Answer:

Reviewing **Flame Test And Electron Configuration Lab Answer**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Flame Test And Electron Configuration Lab Answer**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

<https://staging.conocer.cide.edu/data/scholarship/fetch.php/Garmin%20Forerunner%20405cx%20Owner%20Manual.pdf>

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