

Flame Test Lab

Name Lani Simmons Period 8th Date 10/27

Objective: To recognize that the color of light emitted by a heated element is unique and can be translated into energy that is coming from the movement of electrons within the atoms.

Background: The natural position of an electron in an energy level is called its *ground state*. When an atom absorbs energy, it is in its *excited state*. This happens when electrons are heated in a flame or electrocuted. These excited electrons jump to higher energy levels. Eventually, the excited electrons fall back down to their ground state, releasing their extra energy as a packet of light called a *photon*.

The color of light corresponds to a specific amount of energy. This color varies from one substance to another, because the location of electrons within each substance is different. Just as we have unique fingerprints, each element has a unique color of light (amount of energy) that it releases. As a result, the colors we observe when a substance is heated may be used to identify the element.

Pre-lab Questions:

1. Fill in the blanks with the terms "excited, ground, or light."

When an atom absorbs energy, the electrons move from their ground state to their excited state. Then, the electrons release energy, as they fall back down from their excited state to their ground state. This release of energy is in the form of light.

2. What is a photon? A photon is a tiny particle that comprises waves of electromagnetic radiation. As shown by Maxwell, photons are just electric fields traveling through space. Photons have no charge, no resting mass, and travel at the speed of light.

Data: Hint: Each color will only be used once in the data table below.

Metal Salt	Circle the Color of the Flame that You Observed:					
Calcium Chloride	Yellow/Green	Yellow	Blue-green	Orange	Red	Crimson (Darker Red)
Copper Chloride	Yellow/Green	Yellow	Blue-green	Orange	Red	Crimson (Darker Red)
Lithium Chloride	Yellow/Green	Yellow	Blue-green	Orange	Red	Crimson (Darker Red)
Sodium Chloride	Yellow/Green	Yellow	Blue-green	Orange	Red	Crimson (Darker Red)
Barium Chloride	Yellow/Green	Yellow	Blue-green	Orange	Red	Crimson (Darker Red)
Strontium Chloride	Yellow/Green	Yellow	Blue-green	Orange	Red	Crimson (Darker Red)
Unknown	Yellow/Green	Yellow	Blue-green	Orange	Red	Crimson (Darker Red)

Unknown Number _____

Post-lab Questions:

1. In this lab, you tested six different metal salts. Each metal salt contained one metal atom and one chlorine atom. How do you know that the color observed for each salt came from exciting the *metal* atom and not the *chlorine* atom?

2. Identify your unknown metal atom in the space below. *CHLORIDE* should not be part of your answer!

Unknown Number	Identification

Late Nite Lab Chemistry Answer Key

Wenbin Ji



Late Nite Lab Chemistry Answer Key:

Flash Gordon (1965) Gold Key Comics Alex Raymond, 2014-08-15 In the company of Dale Arden Flash Gordon embarked for the planet Mongo in 1934 That was in the Sunday funnies in a page drawn by Alex Raymond and written anonymously by former pulp fiction editor Don Moore This space opera became one of King Features Syndicate s most popular features and Raymond s illustrative art was to have a strong influence on many of the young artists who began drawing for comic books in the late 1930s and the early 1940s Tom Hickey Sheldon Moldoff Jack Lehti George Papp Mac Raboy Dan Barry etc Flash Gordon entered comic books early in 1936 by way of reprints in King Comics His battles with the merciless Ming a sort of galactic Fu Manchu unfolded in the magazine from the first issue In the early 1940s Dell began issuing now and then Flash Gordon reprint titles Later in the decade came an occasional comic book offering Flash adventures especially written and drawn for this magazine The artist was Paul Norris who also began drawing the Jungle Jim newspaper page in 1948 Harvey Publications tried reprinting the Raymond material in 1950 and 1951 giving up after a few issues King Features experimented with publishing comic books in the late 1960s These used original material and the Flash Gordon book made use of such artists as Al Williamson a devoted Raymond disciple Gil Kane and Reed Crandall When King quit Charlton took over and finally Gold Key The final Whitman Flash Gordon comic book was printed in 1982 He reappeared briefly in 1987 as part of a team that included Mandrake and the Phantom in the TV inspired Defenders of the Earth **Modeling**

Atmospheric and Oceanic Flows Thomas von Larcher, Paul D. Williams, 2014-11-24 Modeling Atmospheric and Oceanic Flows Insights from Laboratory Experiments and Numerical Simulations provides a broad overview of recent progress in using laboratory experiments and numerical simulations to model atmospheric and oceanic fluid motions This volume not only surveys novel research topics in laboratory experimentation but also highlights recent developments in the corresponding computational simulations As computing power grows exponentially and better numerical codes are developed the interplay between numerical simulations and laboratory experiments is gaining paramount importance within the scientific community The lessons learnt from the laboratory model comparisons in this volume will act as a source of inspiration for the next generation of experiments and simulations Volume highlights include Topics pertaining to atmospheric science climate physics physical oceanography marine geology and geophysics Overview of the most advanced experimental and computational research in geophysics Recent developments in numerical simulations of atmospheric and oceanic fluid motion Unique comparative analysis of the experimental and numerical approaches to modeling fluid flow Modeling Atmospheric and Oceanic Flows will be a valuable resource for graduate students researchers and professionals in the fields of geophysics atmospheric sciences oceanography climate science hydrology and experimental geosciences

Journal of Applied Chemistry ,1872 *Current Literature* ,1918 *Current Opinion* Edward Jewitt Wheeler, Frank Crane, 1918 **The Pharmaceutical Era** Charles W. Parsons, 1894 Mechanics Magazine John I Knight, 1860

Instruments ,1947 Issues for Nov 1949 Dec 1953 include the Journal of the Southern California Meter Association
The Examiner ,1853 **Spring Meeting** American Geophysical Union. Meeting,1991 Bibliography and Index of
Geology ,1979 Journal of Sedimentary Petrology ,1938 **Government Reports Announcements & Index** ,1995
CIM Bulletin Canadian Institute of Mining and Metallurgy,1997 **Microwave Journal** ,2001 The Engineering
Index Annual ,1992 Since its creation in 1884 Engineering Index has covered virtually every major engineering innovation
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magazines and conference proceedings Coverage spans over 175 engineering disciplines from over 80 countries Updated
weekly **The Mechanics' Magazine and Journal of Engineering, Agricultural Machinery, Manufactures and**
Shipbuilding ,1860 **Webster's Third International Dictionary of the English Language, Unabridged** ,1961
B.A.S.I.C. ,1969 **CRREL Bibliography** ,1998

Late Nite Lab Chemistry Answer Key Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Late Nite Lab Chemistry Answer Key**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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