

# FLINN

## Flame Tests

## **Atomic Emission and Electron Energy Levels**

#### Introduction

Just as a fingerprint is unique to each person, the color of light enritted by an element braced in a flame is also unique to each element. In this experiment, the characteristic color of light enritted by calcium, copper, lithium, parassium, excluse and strongers income will be observed.

## Concepts

Assertable establishers

- · Wavelength and energy of lights
- Enchant valgramme states
- · Elarum testa

## Background

When a substance is beated in a flame, the atoms absorb-energy from the flame. This absorbed energy allows the electrons to be promoted to excited energy levels. From these excited energy levels, there is a natural tendercy for the electrons to make a transition or drop back closes to the ground state. When an electron enakes a transition from a higher energy level to a looser energy level, a particle of light called a photon in ensitied for Figure 11. Roth the absorption and envision of energy are many time—only centain energy levels are allowers.

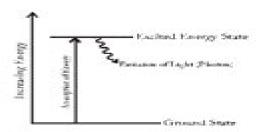


Figure 1. Absorption and endustrin of everyor.

An electron may drop all the way back down to the ground state in a single step, ensisting a photon in the process. Alternatively, as electron may drop back down to the ground state in a series of smaller steps, ensitting a photon with each step. In either case, the energy of each ensitted phorton is equal to the difference in energy between the excited state and the state to which the electron relates. The energy of the ensitted photon determines the culter of light observed in the flares. The flares color may be described in terms of its wavelength, and Economic 1 may be used to calculate the energy of the envitted photon.

$$\Delta E = \frac{\delta c}{\lambda}$$
 Equation 7

 $\Delta E$  is the difference in energy between the two energy levels in joules (J), this Planck's constant  $D=6.626\times 10^{14}$  Peoch.

r is the speci, of highs  $(r = 2.998 \times 10^7 \, \text{ns/sec})$  and

2. (fundate) is the wavelength of light in norters. The wavelengths of sixible light are given in units of nanonoeters (1  $m = 1 \times 10^6$  and). See Table 1 on the following page.

The union of light observed when a substance is bested in a flavor varies from one substance to another. Because each element has a different spaning of electron energy levels, the possible electron transitions for a given substance are union. Therefore, the different in energy letteren energy levels, the existence in energy levels, the context energy of the enristed photon and the corresponding working that color are unions to each substance. As a result, the colors observed when a substance is heated in a flavor may be used as a means of the entirely flavor.

#### The Visible Portion of the Electromagnetic Spectrum

Visible highs to a form of electromagnesis; radiation. Other familiar forms of electromagnesis; radiation include y-rays, X-rays, altraviolet. (UV) radiation, infrared (IR) radiation, retrovare radiation and radio waves. Together, all forms of electromagnesis; radiation make up the electromagnesis; spectrum. The visible partition of the electromagnesis; spectrum is the only portion that can be described by the human eye—all other forms of electromagnesis; as it is some or of electromagnesis.



Figure 2. Visible spectrum.

The visible spectrum spanishe wavelength region from about 400 to 700 nm (see Figure 2). Light of 400 nm is seen as violet and light of 700 nm is seen as vect. According to Equation 1, wavelength is inversely proportional to energy. Therefore, violet light is higher energy light than red light. As the color of light changes, so does the amount of energy is throwever.

Table 1 tpage 21 has the wavelengths associated with each of the colors in the visible spectrum. The representative wavelengths may be used as a benchmark for each color. For example, instead of referring to green as light in the wavelength range 500–560 nm, we may approximate the wavelength range 500–560 nm. An infinite mander of shades of each color may be observed.

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