

## Nurturing conscious, creative, independent thinkers

## Class 10 Physical Science

Chemistry Formal Experiment: Using flame colours to identify unknown metal ions

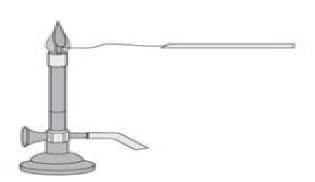
	August 2024
	60 Marks
Full Name:	1 hour

#### Introduction:

The flame test is used to visually determine the identity of an unknown metal or metalloid, as an element or in a compound, based on the characteristic colour the salt turns the flame of a burner. When an electron in an excited state (higher energy) returns to its ground state (lower energy), an atomic spectrum is produced. A specific quantity of energy is associated with each electron, and when an electron returns to a lower energy level, a specific quantity of energy is released. The energy is released as electromagnetic radiation. Certain wavelengths will be visible to the naked eye; other wavelengths can only be detected with instruments. In the activity below, we will investigate the colours emitted by certain metal atoms. Different colours indicate different wavelengths of visible radiation.

#### Materials:

NaCl(aq), KCl(aq); $CaCl_2.2H_2O(aq)$ , $CuCl_2.2H_2O(aq)$
copper powder, magnessum powder,
zinc powder, iron powder
four unknown salt solutions
Bunsen burner
Nichrome wire



# **Physical Science Formal Experiment Nomemo 2014**

**Minjie Lin** 

**Physical Science Formal Experiment Nomemo 2014:** 

The Enigmatic Realm of Physical Science Formal Experiment Nomemo 2014: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Physical Science Formal Experiment Nomemo 2014** a literary masterpiece penned by way of a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book is core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those who partake in its reading experience.

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