



## **Class 10 Physical Science**

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

**August 2024**

**60 Marks**

**1 hour**

**Full Name:** .....

#### **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:**

- ☐  $\text{NaCl(aq)}$ ,  $\text{KCl(aq)}$ ,  $\text{CaCl}_2 \cdot 2\text{H}_2\text{O(aq)}$ ,  $\text{CuCl}_2 \cdot 2\text{H}_2\text{O (aq)}$ ,
- ☐ copper powder, magnesium powder,  
zinc powder, iron powder
- ☐ four unknown salt solutions
- ☐ Bunsen burner
- ☐ Nichrome wire



# Physical Science Formal Experiment Nomemo 2014

**John Trowbridge**



**Physical Science Formal Experiment Nomemo 2014:**

## Reviewing **Physical Science Formal Experiment Nomemo 2014**: 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 "**Physical Science Formal Experiment Nomemo 2014**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on 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.

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