



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:

- ☐ NaCl(aq) , 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

Yan Bai



Physical Science Formal Experiment Nomemo 2014:

Unveiling the Power of Verbal Beauty: An Mental Sojourn through **Physical Science Formal Experiment Nomemo 2014**

In a world inundated with displays and the cacophony of instant connection, the profound power and psychological resonance of verbal beauty usually fade into obscurity, eclipsed by the continuous assault of sound and distractions. However, set within the musical pages of **Physical Science Formal Experiment Nomemo 2014**, a charming function of literary elegance that impulses with organic feelings, lies an unforgettable journey waiting to be embarked upon. Composed by a virtuoso wordsmith, this enchanting opus courses viewers on an emotional odyssey, delicately exposing the latent potential and profound influence embedded within the delicate web of language. Within the heart-wrenching expanse with this evocative analysis, we will embark upon an introspective exploration of the book is key styles, dissect their captivating publishing style, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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