



## 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

**Sebastian Brünink**



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