

**QUALITATIVE ANALYSIS SHEET****INTRODUCTION**

This qualitative analysis sheet is designed to solve for Ordinary level qualitatively analysis practical in which all ions (anion and cat ion) mentioned in the Ordinary level chemistry syllabus will be designed by using available reagent.

In qualitative analysis we readily find out the composition of the compound or the mixture of the compounds. This will involve the identification of the Cation(s) basic radicals or metallic radicals) and Anions (acidic radicals or non-metallic radicals)

The Cat ions and Anions required in this qualitative analysis are as follow; -

<b>CATIONS</b>	<b>SYMBOLS</b>	<b>ANIONS</b>	<b>SYMBOLS</b>
Ammonium ion	$\text{NH}_4^+$	Bicarbonate ion	$\text{HCO}_3^-$
Calcium ion	$\text{Ca}^{2+}$	Chloride ion	$\text{Cl}^-$
Copper (II) ion	$\text{Cu}^{2+}$	Carbonate ion	$\text{CO}_3^{2-}$
Iron (II) ion	$\text{Fe}^{2+}$	Nitrate ion	$\text{NO}_3^-$
Iron (III) ion	$\text{Fe}^{3+}$	Sulfate ion	$\text{SO}_4^{2-}$
Lead (II) ion	$\text{Pb}^{2+}$	Sulfite ion	$\text{SO}_3^{2-}$
Sodium ion	$\text{Na}^+$	Sulfide ion	$\text{S}^{2-}$
Zinc ion	$\text{Zn}^{2+}$		

In analysis the salt, you are required to follow the following systematically qualitatively analysis procedures:-

1. *Appearance*
2. *Solubility of the salt in water*
3. *Action of heat*
4. *Action of dilute acid*
5. *Action of concentrated sulfuric acid*
6. *Confirmatory test for Anions (Basic radicals)*
7. *Action of sodium hydroxide*
8. *Action of Ammonium hydroxide*
9. *Confirmatory test for Cat ions (Acidic radical)*
10. *Conclusion*

# Olevel Chemistry Safrica

**Huangqi Zhang**

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the name 'Huangqi Zhang'.

## Olevel Chemistry Safrica:

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