

Qualitative Analysis Guide Sheet for C.S.E.E. Chemistry Practical

Systematic Qualitative Analysis can be grouped into three stages:

- 1) Preliminary tests
- 2) Tests in solution
- 3) Confirmation tests

The ions expected in the scheme include:

Cations: NH_4^+ Ca^{2+} Fe^{3+} Cu^{2+} Zn^{2+} Pb^{2+} Na^+ Fe^{2+}

Anions: CO_3^{2-} HCO_3^- NO_3^- SO_4^{2-} Cl^-

Recording experimental results

The recorded results should appear in a tabular form where three columns showing the brief explanation of the experimental procedure, observations made, and inferences must appear.

The report should be in the following table:

TEST	OBSERVATIONS	INFERENCE

OBSERVATIONS:

When doing experiments, leave the chemicals to stand for a few minutes as some changes may take a little time to be seen. For example, most precipitates form instantly, but others take a minute or two.

Thus observations are generally changes which can be seen when a chemical substance is subjected to an experiment (test). These include:

- a) colour change
- b) precipitates formed
- c) gelatinous changes of liquid substances
- d) gases evolved
- e) light (noise) produced

INFERENCE:

Inferences are essential in experimental procedure as they explain about the identity of the unknown chemical substances. Usually inferences must be specific. For example a common mistake of making deductions is to write "sodium, Na^+ ". Does this mean sodium Na^+ ions are present or absent? Students should remember to write specific inferences. Students should also remember that not all experiments will give a visible change. Sometimes if there is no change, it can help to make an inference about the absence of certain ions. For example, if a barium nitrate solution added to an unknown substance and there is no reaction, this implies that sulphate ions are absent because the presence of sulphate ions is shown by formation of white precipitate.

CONCLUSION:

Before proceeding to the next test, observations and inferences of the earlier experiment must be written. After all experiments you may be asked to make conclusions about the chemical ions or nature of the chemical substances found in the samples. This can be obtained by combining together all inferences made earlier in the successive tests.

Chemistry Practical Qualitative Analysis Sheet

Michael Brown



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