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الملف Tests identify metals and nonmetals in the compound

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Chapter 7.5 Flame Test and Metal hydroxide test worksheet

1. When doing a flame test, which metal is identified by the presence of a yellow flame?
 - A. Lithium
 - B. Sodium
 - C. Potassium
2. When doing a flame test, which metal is identified by a blue-green flame?
 - A. Calcium
 - B. Copper
 - C. Lithium
3. Sodium hydroxide solution was added to a solution, a blue precipitate formed. Which metal ion was present in the solution?
 - A. Copper ion
 - B. Iron (II) ion
 - C. Calcium ion
4. If a brown precipitate forms when sodium hydroxide is added to a mystery solution, which metal ion was present?
 - A. Potassium ion
 - B. Sodium ion
 - C. Iron (III) ion
5. A colourless solution was tested with a few drops of sodium hydroxide. A white precipitate formed. When excess sodium hydroxide was added, the white precipitate redissolved. Which metal ion was present?
 - A. Calcium ion
 - B. Aluminium ion
 - C. Copper ion
6. An aqueous solution of a compound M is tested. The results are shown:
 - It gave a lilac colour in a flame test.
 - It produced a white precipitate when tested with acidified barium nitrate.

What is M?

- A. Copper (II) chloride
- B. Copper (II) sulfate
- C. Potassium carbonate
- D. Potassium sulfate

Chapter 7.5 Flame Test and Metal hydroxide test worksheet

7. Two tests are carried out on substance Z.

- Test 1: A flame test produces red flame.
- Test 2: Z is dissolved in water and dilute nitric acid is added, followed by aqueous silver nitrate. A yellow precipitate is produced.

What is substance Z?

- A. Lithium bromide
- B. Lithium iodide
- C. Sodium bromide
- D. Sodium iodide

8. Four different colourless solutions are each tested separately with aqueous sodium hydroxide and with acidified silver nitrate.

Which solution is sodium chloride?

	Aqueous sodium hydroxide	Acidified silver nitrate
A.	No visible reaction	White precipitate
B.	No visible reaction	No visible reaction
C.	White precipitate	No visible reaction
D.	White precipitate	White precipitate

9. A solution containing substance X was tested. The table shows the results.

Test	Result
Flame test	Lilac colour
Acidified silver nitrate solution added	Yellow precipitate

What is X?

- A. Lithium bromide
- B. Lithium iodide
- C. Potassium bromide
- D. Potassium iodide

10. A colourless solution gave an orange-red colour with a flame test, and then a white precipitate with sodium hydroxide solution. What compound is present in the solution?

- A. Copper carbonate
- B. Potassium iodide
- C. Calcium bromide