



PRACTICE WORKSHEET

Subject: Chemistry

Class: ICSE 8th

Chapter: Language of Chemistry

Worksheet: C1

Question 1:

Write the symbols for following radicals with their valencies:

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|--------------|-------------|------------|---------------|
| a. Sulphide | b. sulphate | c. nitrate | d. carbonate |
| e. phosphate | f. zincate | g. oxide | h. dichromate |
| i. chloride | j. nitride | | |

Question 2:

Write the chemical formula for the following compounds:

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|-----------------------|-------------------------|
| a. Potassium chloride | e. aluminium sulphate |
| b. Magnesium nitride | f. calcium phosphate |
| c. Magnesium nitrate | g. potassium dichromate |
| d. Zinc sulphate | h. sodium oxide |

Question 3:

Write balanced molecular equations for the following word equations:

- Calcium + oxygen → calcium oxide
- Nitrogen + hydrogen → ammonia
- Zinc + sulphuric acid → zinc sulphate + hydrogen
- Aluminum + oxygen → aluminum oxide

Question 4:

Balance the following chemical equations:

- $\text{Fe} + \text{H}_2\text{O} \rightarrow \text{Fe}_3\text{O}_4 + \text{H}_2$
- $\text{NO} + \text{O}_2 \rightarrow \text{NO}_2$
- $\text{NH}_3 + \text{H}_2\text{SO}_4 \rightarrow (\text{NH}_4)_2\text{SO}_4$
- $\text{ZnO} + \text{NaOH} \rightarrow \text{Na}_2\text{ZnO}_2 + \text{H}_2\text{O}$
- $\text{P} + \text{O}_2 \rightarrow \text{P}_2\text{O}_5$