

Chemistry 11
Science 10 Review

Name:
Date:
Block:

Write the formula for the following compounds:

1. Barium nitride
2. Lithium oxide
3. Aluminum sulphide
4. Copper(II)oxide
5. Zinc(II) fluoride
6. Chromium(III) nitride
7. Silver oxalate
8. Chromium(II) acetate
9. Gold (III) chromate

Write the name for the following compounds:

1. GaAs
2. KCl
3. Ni_3P_2
4. TiO_2
5. Au_2Se
6. $\text{Ag}_2\text{C}_2\text{O}_4$
7. Na_2CrO_4
8. $\text{Cr}(\text{NO}_3)_2$

Classify each of the following as an acid, base, or salt.

1. Potassium hydroxide _____
2. Has a pH of 3 _____
3. NaCl _____
4. Magnesium carbonate _____
5. HF _____
6. LiOH _____
7. Tastes bitter _____
8. Calcium nitrate _____
9. H_3PO_4 _____
10. $\text{Sr}(\text{OH})_2$ _____

Balance the following reaction and classify the type of chemical reaction:

- ___ CH_4 + ___ $\text{O}_2 \rightarrow$ ___ CO_2 + ___ H_2O _____
- ___ B + ___ $\text{Cl}_2 \rightarrow$ ___ BCl_3 _____
- ___ Ca + ___ $\text{HCl} \rightarrow$ ___ H_2 + ___ CaCl_2 _____
- ___ HClO + ___ $\text{O}_2 \rightarrow$ ___ HClO_4 _____
- ___ $\text{C}_{25}\text{H}_{52}$ + ___ $\text{O}_2 \rightarrow$ ___ CO_2 + ___ H_2O _____
- ___ $\text{Hg}_2\text{SO}_3 \rightarrow$ ___ Hg + ___ S + ___ O_2 _____
- ___ CH_3COOH + ___ $\text{Ti}(\text{OH})_3 \rightarrow$ ___ $\text{Ti}(\text{CH}_3\text{COO})_3$ + ___ H_2O _____

Write the complete balanced chemical reactions for the following:

- a) Potassium hydroxide and hydrogen are produced when potassium metal reacts with water.

- b) The reaction between magnesium metal and copper(II) sulphate.

- c) Decomposition of mercury(II) oxide to its elements.