

Name: \_\_\_\_\_

Group: \_\_\_\_\_

Date: \_\_\_\_\_

**Balancing Chemical Equations - Homework Sheet**  
**Grade 10 Science**

**PART 1: Balance the following chemical equations**

**\*Note, you may need to work out these balancing equations on extra paper**

1.  $\text{N}_2 + \text{H}_2 \rightarrow \text{NH}_3$
2.  $\text{S}_8 + \text{O}_2 \rightarrow \text{SO}_3$
3.  $\text{HgO} \rightarrow \text{Hg} + \text{O}_2$
4.  $\text{Zn} + \text{HCl} \rightarrow \text{ZnCl}_2 + \text{H}_2$
5.  $\text{SiCl}_4 + \text{H}_2\text{O} \rightarrow \text{H}_4\text{SiO}_4 + \text{HCl}$
6.  $\text{Na} + \text{H}_2\text{O} \rightarrow \text{NaOH} + \text{H}_2$
7.  $\text{H}_3\text{PO}_4 \rightarrow \text{H}_4\text{P}_2\text{O}_7 + \text{H}_2\text{O}$
8.  $\text{Si}_2\text{H}_3 + \text{O}_2 \rightarrow \text{SiO}_2 + \text{H}_2\text{O}$
9.  $\text{Al}(\text{OH})_3 + \text{H}_2\text{SO}_4 \rightarrow \text{Al}_2(\text{SO}_4)_3 + \text{H}_2\text{O}$
10.  $\text{Fe} + \text{O}_2 \rightarrow \text{Fe}_2\text{O}_3$
11.  $\text{Fe}_2(\text{SO}_4)_3 + \text{KOH} \rightarrow \text{K}_2\text{SO}_4 + \text{Fe}(\text{OH})_3$
12.  $\text{FeS}_2 + \text{O}_2 \rightarrow \text{Fe}_2\text{O}_3 + \text{SO}_2$
13.  $\text{Al} + \text{FeO} \rightarrow \text{Al}_2\text{O}_3 + \text{Fe}$
14.  $\text{Na}_2\text{CO}_3 + \text{HCl} \rightarrow \text{NaCl} + \text{H}_2\text{O} + \text{CO}_2$
15.  $\text{K} + \text{Br}_2 \rightarrow \text{KBr}$
16.  $\text{P}_4 + \text{O}_2 \rightarrow \text{P}_2\text{O}_5$
17.  $\text{C}_2\text{H}_2 + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$

# Questions In Standard Grade Chemistry

**Sabine Zange**



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