

Name: _____

Group: _____

Date: _____

Balancing Chemical Equations - Homework Sheet
Grade 10 Science

PART 1: Balance the following chemical equations

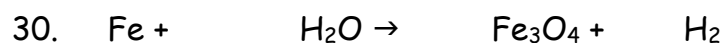
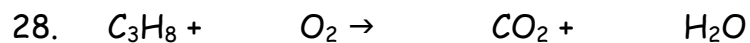
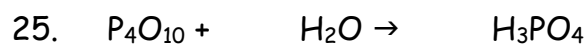
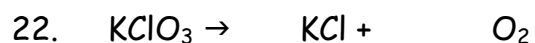
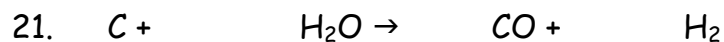
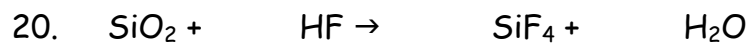
***Note, you may need to work out these balancing equations on extra paper**

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. $\text{C}_2\text{H}_2 + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$

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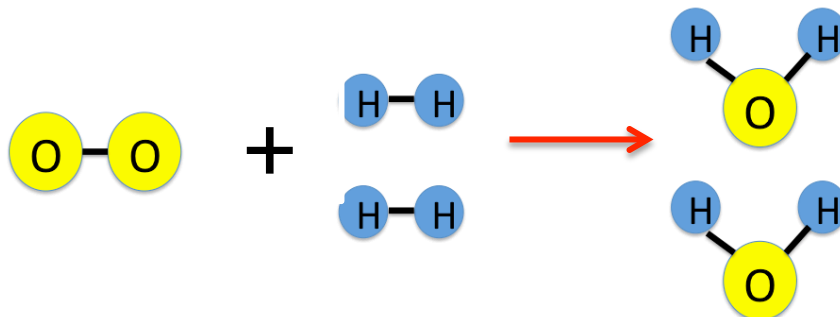
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PART 2: Choose two balanced equations from above and represent them using the ball and stick model.

Example: $2 H_2 + O_2 \rightarrow 2 H_2O$



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Balanced Equation:

Model:

Balanced Equation:

Model: