

Predicting Products of Chemical Reactions

This worksheet is designed to help you predict products of simple reactions of the four basic reaction types (synthesis, decomposition, single replacement, and double replacement) and combustion reactions.

For the first few reactions, the type of reaction is listed, you should predict the products, then balance. Further questions just have the reactants listed and you should decide on the type of reaction, as well as the correct products. Many of these reactions fall into the category of redox reactions, though do not let that confuse you...each can be described in terms of the four basic reaction types (except the combustion reactions).

Although states (s, l, g, aq) of the reactants and products are very important in a chemical reaction, don't worry about determining those for these problems. Rather, focus on what products might result from the reactants given. Pay particular attention to the ionic charge of species that you know forms ions with only one possible charge (e.g., alkali metals, alkaline earth metals, halogens, etc.)

1. Combustion: $\text{C}_2\text{H}_6 + 9 \text{O}_2 \rightarrow 6 \text{CO}_2 + 6 \text{H}_2\text{O}$
2. Combustion: $2 \text{C}_4\text{H}_{10} + 11 \text{O}_2 \rightarrow 8 \text{CO}_2 + 6 \text{H}_2\text{O}$
3. Combustion: $\text{C}_5\text{H}_{12}\text{O}_2 + 7 \text{O}_2 \rightarrow 6 \text{CO}_2 + 5 \text{H}_2\text{O}$
4. Synthesis: $\text{Mg} + \text{I}_2 \rightarrow \text{MgI}_2$
5. Double displacement: $\text{CuCl}_2 + \text{H}_2\text{S} \rightarrow \text{CuS} + 2 \text{HCl}$
6. Double displacement: $\text{NaOH} + \text{HClO}_4 \rightarrow \text{NaClO}_4 + \text{H}_2\text{O}$
7. Decomposition: $\text{ZnCO}_3 + \text{heat} \rightarrow \text{ZnO} + \text{CO}_2$
8. Single replacement: $2 \text{HCl} + \text{Zn} \rightarrow \text{ZnCl}_2 + \text{H}_2$
9. single $2 \text{Na} + \text{MgCl}_2 \rightarrow 2 \text{NaCl} + \text{Mg}$
10. double $\text{CaCl}_2 + \text{K}_2\text{CO}_3 \rightarrow \text{CaCO}_3 + 2 \text{KCl}$
11. synthesis $2 \text{K} + \text{Cl}_2 \rightarrow 2 \text{KCl}$
12. double $3 \text{BaCl}_2 + 2 \text{K}_3\text{PO}_4 \rightarrow \text{Ba}_3(\text{PO}_4)_2 + 6 \text{KCl}$
13. double $\text{H}_2\text{SO}_4 + 2 \text{KOH} \rightarrow \text{K}_2\text{SO}_4 + 2 \text{H}_2\text{O}$
14. synthesis $4 \text{Al} + 3 \text{O}_2 \rightarrow 2 \text{Al}_2\text{O}_3$
15. double $\text{Pb}(\text{NO}_3)_2 + 2 \text{KOH} \rightarrow \text{Pb}(\text{OH})_2 + 2 \text{KNO}_3$
16. double $\text{H}_2\text{SO}_4 + \text{BaCl}_2 \rightarrow 2 \text{HCl} + \text{BaSO}_4$
17. single $\text{Ca} + 2 \text{AgCl} \rightarrow \text{CaCl}_2 + 2 \text{Ag}$
18. double $\text{H}_3\text{PO}_4 + \text{FeBr}_3 \rightarrow 3 \text{HBr} + \text{FePO}_4$
19. synthesis $6 \text{Li} + \text{N}_2 \rightarrow 2 \text{Li}_3\text{N}$
20. double $2 \text{HCl} + \text{Mg}(\text{OH})_2 \rightarrow \text{MgCl}_2 + 2 \text{H}_2\text{O}$

Predicting Products And Balancing Equations Key

Peter Atkins, Loretta Jones



Predicting Products And Balancing Equations Key:

This book delves into Predicting Products And Balancing Equations Key. Predicting Products And Balancing Equations Key is a crucial topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Predicting Products And Balancing Equations Key, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Predicting Products And Balancing Equations Key
 - Chapter 2: Essential Elements of Predicting Products And Balancing Equations Key
 - Chapter 3: Predicting Products And Balancing Equations Key in Everyday Life
 - Chapter 4: Predicting Products And Balancing Equations Key in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of Predicting Products And Balancing Equations Key. The first chapter will explore what Predicting Products And Balancing Equations Key is, why Predicting Products And Balancing Equations Key is vital, and how to effectively learn about Predicting Products And Balancing Equations Key.
 3. In chapter 2, this book will delve into the foundational concepts of Predicting Products And Balancing Equations Key. The second chapter will elucidate the essential principles that need to be understood to grasp Predicting Products And Balancing Equations Key in its entirety.
 4. In chapter 3, this book will examine the practical applications of Predicting Products And Balancing Equations Key in daily life. This chapter will showcase real-world examples of how Predicting Products And Balancing Equations Key can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of Predicting Products And Balancing Equations Key in specific contexts. This chapter will explore how Predicting Products And Balancing Equations Key is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Predicting Products And Balancing Equations Key. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Predicting Products And Balancing Equations Key.

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