

# Experiment 18-Chemical Reactions Lab Report

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

Section: \_\_\_\_\_

For this lab, you need to balance each equation, and classify the reaction according to the types of reactions listed in the lab handout using C (combination), D (decomposition), Cu (combustion), S (single replacement) and DR (double replacement). Include what you observed below each reaction.

- |  | <u>Type of Reaction</u> |
|--|-------------------------|
| 1. $\underline{\hspace{1cm}} \text{CaCl}_2 (\text{aq}) + \underline{\hspace{1cm}} \text{Na}_3\text{PO}_4 (\text{aq}) \rightarrow \underline{\hspace{1cm}} \text{Ca}_3(\text{PO}_4)_2 (\text{s}) + \underline{\hspace{1cm}} \text{NaCl} (\text{aq})$  | _____                   |
| Observations:  |                         |
| 2. $\underline{\hspace{1cm}} \text{CuSO}_4 (\text{H}_2\text{O})_5 + \text{heat} \rightarrow \underline{\hspace{1cm}} \text{CuSO}_4 (\text{s}) + \underline{\hspace{1cm}} \text{H}_2\text{O} (\text{g})$  | _____                   |
| Observations:  |                         |
| $\underline{\hspace{1cm}} \text{CuSO}_4 (\text{s}) + \underline{\hspace{1cm}} \text{H}_2\text{O} (\text{l}) \rightarrow \underline{\hspace{1cm}} \text{CuSO}_4 (\text{H}_2\text{O})_5 (\text{s})$  | _____                   |
| Observations:  |                         |
| 3. $\underline{\hspace{1cm}} \text{Zn} (\text{s}) + \underline{\hspace{1cm}} \text{HCl} (\text{aq}) \rightarrow \underline{\hspace{1cm}} \text{ZnCl}_2 (\text{aq}) + \underline{\hspace{1cm}} \text{H}_2 (\text{g})$   | _____                   |
| Observations:  |                         |
| $\underline{\hspace{1cm}} \text{H}_2 (\text{g}) + \underline{\hspace{1cm}} \text{O}_2 (\text{g}) \rightarrow \underline{\hspace{1cm}} \text{H}_2\text{O} (\text{g})$ The "popping" reaction induced with the match.  | _____                   |
| Observations:  |                         |
| 4. $\underline{\hspace{1cm}} \text{HCl} (\text{aq}) + \underline{\hspace{1cm}} \text{Na}_2\text{CO}_3 (\text{aq}) \rightarrow \underline{\hspace{1cm}} \text{CO}_2 (\text{g}) + \underline{\hspace{1cm}} \text{NaCl} (\text{aq}) + \underline{\hspace{1cm}} \text{H}_2\text{O} (\text{l})$ | _____                   |
| Observations:  |                         |
| 5. $\underline{\hspace{1cm}} \text{H}_2\text{O}_2 (\text{aq}) \rightarrow \underline{\hspace{1cm}} \text{O}_2 (\text{g}) + \underline{\hspace{1cm}} \text{H}_2\text{O} (\text{l})$ (the $\text{MnO}_2$ is a catalyst, it does not react)   | _____                   |
| Observations:  |                         |
| 6. $\underline{\hspace{1cm}} \text{HCl} (\text{aq}) + \underline{\hspace{1cm}} \text{NaOH} (\text{aq}) \rightarrow \underline{\hspace{1cm}} \text{NaCl} (\text{aq}) + \underline{\hspace{1cm}} \text{H}_2\text{O} (\text{l})$  | _____                   |
| Observations:  |                         |
| 7. $\underline{\hspace{1cm}} \text{CaCl}_2 (\text{aq}) + \underline{\hspace{1cm}} \text{Na}_2\text{CO}_3 (\text{aq}) \rightarrow \underline{\hspace{1cm}} \text{NaCl} (\text{aq}) + \underline{\hspace{1cm}} \text{CaCO}_3 (\text{s})$   | _____                   |
| Observations:  |                         |
| 8. $\underline{\hspace{1cm}} \text{Zn} (\text{s}) + \underline{\hspace{1cm}} \text{CuSO}_4 (\text{aq}) \rightarrow \underline{\hspace{1cm}} \text{ZnSO}_4 (\text{aq}) + \underline{\hspace{1cm}} \text{Cu} (\text{s})$   | _____                   |
| Observations:  |                         |
| 9. $\underline{\hspace{1cm}} \text{Cu} (\text{s}) + \underline{\hspace{1cm}} \text{ZnSO}_4 (\text{aq}) \rightarrow \underline{\hspace{1cm}} \text{CuSO}_4 (\text{aq}) + \underline{\hspace{1cm}} \text{Zn} (\text{s})$   | _____                   |
| Observations:  |                         |
| 10. $\underline{\hspace{1cm}} \text{CaCl}_2 (\text{aq}) + \underline{\hspace{1cm}} \text{NaNO}_3 (\text{aq}) \rightarrow \underline{\hspace{1cm}} \text{Ca}(\text{NO}_3)_2 (\text{aq}) + \underline{\hspace{1cm}} \text{NaCl} (\text{aq})$   | _____                   |
| Observations:  |                         |

# Labpaq Ionic Reactions Report Answers

**Patrick Vollmar**



**Labpaq Ionic Reactions Report Answers:**

## **Labpaq Ionic Reactions Report Answers** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Labpaq Ionic Reactions Report Answers**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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