

Unit 5 Types of Chemical Reactions Lab Report (37 pts)

In this experiment, you will mix chemicals and observe synthesis, single displacement, and double displacement reactions. You will make observations about what happens when you combine the different chemicals. Have your solubility chart. You will write balanced chemical equations for each reaction. You will need screen shots of your results at the end so be sure take snips of your results and paste them in the end right from the start.

This is in the content at investigation: Types of Chemical Reactions 1 and you have to go to slide two to get to it:

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Investigation: Types of Chemical Reactions 1 ~

(3 points)

Part 1 Synthesis combustion reaction:

1. You burned a Magnesium (Mg(s)) strip in the presence of Oxygen ($\text{O}_2\text{(g)}$) gas. Mg^{2+} , O^{2-}
 - A. What happened, describe what you saw, what happened in terms of left-over product, and add snip.
 - B. Write a **balanced** synthesis reaction for this process. I should see reactants < products
 - C. Using the A, B symbols, write a general equation for a synthesis reaction.

(4 points)

Part 2: Single-Displacement Reactions:

2. A. For each of the four single-displacement reactions, describe what happened in each beaker. Use the Reactivity chart on page two to confirm your reaction.

Table 1 Observations Single Displacement Reactions			
Beaker	Solids (s)	Solutions (aq) 10 drops	Observations Before & After can add a screen shot
A	Aluminum	Copper sulfate $\text{CuSO}_4\text{(aq)}$	Darker specks develop on aluminum, this is copper
B	Zinc	Copper sulfate $\text{CuSO}_4\text{(aq)}$	
C	Zinc	Silver nitrate $\text{AgNO}_3\text{(aq)}$	
D	Copper	Silver nitrate $\text{AgNO}_3\text{(aq)}$	

- B. (1 pt) Using the A, B and C symbols, write a general equation for a single-displacement reaction.

(6 pts for products, balanced and parenthesis for solid, liquid, gas or aqueous)

- C. Write a **balanced** equation each reaction.

Ionic charges: Zn^{2+} , Al^{3+} , Cu^{2+} , Ag^{+} , SO_4^{2-} , NO_3^{-}

Here are the chemical formulas for the reactants in each reaction: I should see reactants < products. The reactants are given, but you need to cross down your oxidation numbers to get the correct chemical formulas for the products. Be sure to include (aq), or (s) for each chemical formula. I'll do the reaction A, you do the rest.

- A. Aluminum – Al(s) and copper sulfate – $\text{CuSO}_4\text{(aq)}$

1. If the charges of the ions are the same, then the ratio is 1:1.
2. If the charges of the ions are different, then the ratio can be determined by cross-multiplying the charges.



Lab Report Types Of Chemical Reactions

L Cohen



Lab Report Types Of Chemical Reactions:

The Top Books of the Year Lab Report Types Of Chemical Reactions The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Lab Report Types Of Chemical Reactions : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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