

TYPES OF CHEMICAL REACTIONS LAB PART#1

I. Purpose: To view the actual chemical reactions, write the correct balanced chemical equation, and type of chemical reaction.

Connection to Business: Businesses utilize many types of chemical reactions to produce, maintain, and sterilize their product or to prevent pollution.

II. Materials: burner, test tube, metal tongs (only....no rubber ends), microspatula, evaporating dish, wood splints

Chemicals: copper (wire), magnesium (ribbon), copper (II) carbonate

SAFETY GOGGLES!

III. Procedure: Part #1

1. Obtain materials.
2. Use the fine sandpaper to clean a piece of copper wire until shiny.
3. Set up a Bunsen burner.
4. Using tongs, hold the wire in the hottest part of the burner flame for 1-2 minutes. Record your observation of the wire's appearance afterwards.
5. Place an evaporating dish near the Bunsen burner and repeat step #4 except place the remaining magnesium into the evaporating dish.
(WARNING: AVOID LOOKING DIRECTLY AT THE FLAME)
6. Place 2 heaping microspatulas of copper (II) carbonate into a clean, dry test tube.
7. Using a test tube holder, hold the test tube (at a 45° angle pointed away from people) over the Bunsen burner flame for 3 minutes or until completely black.
(Allow this to cool slightly before placing into the wood test tube holder.)
8. Light a wood splint and place inside the test tube. Record your observations.
9. Dispose of all the metals and burnt powders in a zip-lock bag and place in the trash.
10. Clean and return all lab equipment.

IV. Data/Questions: Part #1 Data Table

Sample	Appearance Before Reaction	Appearance After Reaction
1. Copper	Answer: shiny, reddish brown	Answer: black, powder coating
2. Magnesium	Answer: silver, tinsel	Answer: black ashes, bright light
3. Mercury (II) Oxide (will not perform experiment)	Reddish powder	Liquid mercury formed; flame burned brighter when placed in the test tube
4. Copper (II) Carbonate	Answer: green powder	Answer: decomposes into gas CO ₂ and black residue

Lab Report Types Of Chemical Reactions

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Lab Report Types Of Chemical Reactions:

Interactions of Matter Christine Caputo, 2010 A look at how different elements interact in chemical reactions to form compounds with new properties *America's Lab Report* National Research Council, Division of Behavioral and Social Sciences and Education, Center for Education, Board on Science Education, Committee on High School Laboratories: Role and Vision, 2006-01-20 Laboratory experiences as a part of most U S high school science curricula have been taken for granted for decades but they have rarely been carefully examined What do they contribute to science learning What can they contribute to science learning What is the current status of labs in our nation s high schools as a context for learning science This book looks at a range of questions about how laboratory experiences fit into U S high schools What is effective laboratory teaching What does research tell us about learning in high school science labs How should student learning in laboratory experiences be assessed Do all student have access to laboratory experiences What changes need to be made to improve laboratory experiences for high school students How can school organization contribute to effective laboratory teaching With increased attention to the U S education system and student outcomes no part of the high school curriculum should escape scrutiny This timely book investigates factors that influence a high school laboratory experience looking closely at what currently takes place and what the goals of those experiences are and should be Science educators school administrators policy makers and parents will all benefit from a better understanding of the need for laboratory experiences to be an integral part of the science curriculum and how that can be accomplished *Handbook of Formative Assessment* Heidi Andrade, Gregory J. Cizek, 2010-04-02 Formative assessment has recently become a focus of renewed research as state and federal policy makers realize that summative assessments have reached a point of diminishing returns as a tool for increasing student achievement Consequently supporters of large scale testing programs are now beginning to consider the potential of formative assessments to improve student achievement The mission of this handbook is to comprehensively profile this burgeoning field of study Written by leading international scholars and practitioners each chapter includes a discussion of key issues that dominate formative assessment policy and practice today as well as those that are likely to affect research and practice in the coming years Key features include Comprehensive nineteen chapters cover all aspects of formative assessment including classroom assessment large scale applications technological applications applications for special needs students K 12 and post secondary applications psychometric considerations case studies and discussion of alternative assessment formats such as portfolios and performance assessments Integrative thoughtful attention is given to the integration of large scale and classroom assessments Practical provides practical guidance on how to conduct formative assessments that generate credible information to guide instruction Global provides perspectives from leading international scholars and practitioners whose expertise spans diverse settings student populations and educational systems Accessible Style although grounded in the latest research the book s style and tone has been carefully crafted to make it accessible to

both the textbook and professional markets It will also be a critical reference book for researchers in teacher preparation educational administration and educational policy studies **STEM Road Map 2.0** Carla C. Johnson,Erin E. Peters-Burton,Tamara J. Moore,2021-03-10 Featuring a team of over thirty STEM education professionals from across the United States the updated and revised edition of this landmark book provides an integrated STEM curriculum encompassing the entire K 12 spectrum with complete grade level learning based on a spiraled approach to building conceptual understanding Taking into account the last five years of evolution in STEM education the second edition includes an increased focus on computer science computational thinking mathematics and the arts as well as cultural relevance and addressing the needs of diverse learners and underrepresented students Divided into three main parts Conceptualizing STEM STEM Curriculum Maps and Building Capacity for STEM each section is designed to build common understandings of integrated STEM provide rich curriculum maps for implementing integrated STEM at the classroom level and offer supports to enable systemic transformation to an integrated STEM approach Written for teachers policymakers and administrators this second edition is fully updated to account for the needs of K 12 learners in the innovation age STEM Road Map 2 0 enables educators to implement integrated STEM learning into their classroom without the need for extensive resources empowering educators and supporting students **STEM Road Map** Carla C. Johnson,Erin E. Peters-Burton,Tamara J. Moore,2015-07-03 STEM Road Map A Framework for Integrated STEM Education is the first resource to offer an integrated STEM curricula encompassing the entire K 12 spectrum with complete grade level learning based on a spiraled approach to building conceptual understanding A team of over thirty STEM education professionals from across the U S collaborated on the important work of mapping out the Common Core standards in mathematics and English language arts the Next Generation Science Standards performance expectations and the Framework for 21st Century Learning into a coordinated integrated STEM education curriculum map The book is structured in three main parts Conceptualizing STEM STEM Curriculum Maps and Building Capacity for STEM designed to build common understandings of integrated STEM provide rich curriculum maps for implementing integrated STEM at the classroom level and supports to enable systemic transformation to an integrated STEM approach The STEM Road Map places the power into educators hands to implement integrated STEM learning within their classrooms without the need for extensive resources making it a reality for all students Scientific and Technical Aerospace Reports ,1994 *Human Biology Laboratory Manual* Charles J. Welsh,2006 A perfect accompaniment to any Human Biology course Charles Welsh s Human Biology Laboratory Manual boasts 18 lab exercises aimed at educating students on how the human body works Labs within the manual may be taught in any order offering instructors the flexibility to cater the text to their own needs and course lengths Report summaries United States. Environmental Protection Agency,1983 **Subject Index to Unclassified ASTIA Documents** Defense Documentation Center (U.S.),1960 **U.S. Government Research Reports** ,1964

Lab Report Types Of Chemical Reactions: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels enthraling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have enthralled audiences this year. Lab Report Types Of Chemical Reactions : Colleen Hoover's "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 skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Lab Report Types Of Chemical Reactions : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing 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 weaves a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These bestselling 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 Popen, 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 an exceptional and thrilling 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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