

5 reaction TYPES Lab

afety:

- Students must wear goggles and tie back their hair
- Students should wear gloves
- Students should not have dangling or loose clothing that could catch fire
- Exercise caution around the flame
- Avoid completing the experiment in a room with smoke

Equipment:

- Balance
- Graduated Pipets, 3
- Bunsen Burner
- Butane Safety Lighter
- Spatula (for weighing)
- Test Tube Clamps
- Test Tube Rack
- Test Tubes, 3
- Crucible Tongs
- Watch Glass, 2
- Wood Splint, 1

Chemicals:

- Calcium Chloride Solution, 0.5M, CaCl_2 , 3mL
- Copper Sulfate Solution, 0.5M, CuSO_4 , 5mL
- Magnesium Strips, one small, and one 2in
- Ethyl Alcohol, $\text{CH}_3\text{CH}_2\text{OH}$, 1mL
- Sodium Bicarbonate, NaHCO_3 , 1g
- Sodium Carbonate Solution, 0.5M, Na_2CO_3 , 3mL

Reaction 1:

Caution: Copper (II) Sulfate will irritate the skin

1. Place a test tube in the test tube rack
2. Obtain a short piece (around 5 cm) long of magnesium
3. Add 2mL of 0.5 M Copper (II) Sulfate solution

a. Initial Observations:

b. Observation after 5 minutes:

Caution: perform this every time when adding chemical solutions. It is flammable

1. Weigh and add 1g of sodium bicarbonate into a test tube
- a. Observations before heating:

2. Light the Bunsen burner
3. Hold the test tube with your test tube clamp
4. Place the test tube over the Bunsen burner for about 1 minute
- a. Observations after heating:

5. Hold the test tube back with the flame
6. Move your test tube and light the end of a wood splint and hold it over the mouth of the test tube
- a. Initial Observations? Record here

7. Turn off the burner

INCLUDES 5 MINI LABS AND A BALANCING PROBLEM FOR EACH LAB!

Grade 10 Types Of Reactions Lab

C Cleary

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Grade 10 Types Of Reactions Lab:

Microscale Organic Laboratory Dana W. Mayo, Ronald M. Pike, David C. Forbes, 2023-02-07 Microscale Organic Chemistry With Multistep and Multiscale Syntheses offers a modern approach to the laboratory experience within the organic division. Notable features include inquiry driven experimentation, validation of the purification process, and the implementation of greener processes including microwave use to perform traditional experimentation. In addition to offering alternative methods to perform microscale experiments, this text offers strong pedagogy to promote student success through empowerment and encouragement.

Becoming a Secondary School Science Teacher Leslie W. Trowbridge, Rodger W. Bybee, Robert B. Sund, 1981

Papers Presented and Discussions Held, 1960

Cracking the AP Statistics Exam, 2014 Edition Princeton Review (Firm), Madhuri S. Mulekar, 2013-09-03 Presents two full length practice tests with detailed explanations and provides a comprehensive review of exam material

Nuclear Science Abstracts, 1974

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Western Electrician, 1898

Annual Register University of Chicago, 1907

Immunobiology of HLA Bo Dupont, 2012-12-06 The Tenth International Histocompatibility Workshop of this work and Fran Berman for her help in preparing component concerning T cell recognition of HLA class the report MaryAnn Barletta Sally Krell and Halina II molecules drew its strength from the hard work Korsun provided invaluable help with a multitude of diligence and selfless spirit of the 23 participating organizational and operational issues Bo Dupont and laboratories The enthusiasm and camaraderie exhib Bob Knowles provided sound advice helpful discussed by the participants in Princeton during November sessions and continued support John Hansen Jean Marc 1987 bear testimony to the caliber of the individuals Lalouel and the other members of the Organizing Committee involved. The committee made valuable contributions. Rosemarie Pliitke's Numerous individuals both inside and outside of the enthusiasm, diligence, and statistical expertise were. Organizing Committee contributed significantly to the vital ingredients in this undertaking. John Klein was success of this component of the Workshop. We thank always ready to step in and assume whatever responsibility David Eckels Adrianna Zeevi Nancy Reinsmoen and it was necessary to keep the work going. Above all I Eric Mickelson for their continued advice encourage owe special and personal thanks to my family whose ment and hard work throughout this endeavor. We thank patience support and understanding helped to sustain Deborah Richardson for her help during the early stages me over the last 2 years.

Educational Research Document Summaries Educational Research Information Center (U.S.), 1966

Bulletin Northwestern University (Evanston, Ill.), 1958

Resources in Education, 1995-05

NBS Special Publication, 1925

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[Cracking the AP Statistics Exam, 2018 Edition](#) Princeton Review, 2017-08

Everything students need to know to succeed on the AP Statistics Exam

2017 Oncology Nursing Drug Handbook Wilkes, 2016-11-29 Written especially for nurses caring for patients with cancer the 2017 Oncology Nursing Drug Handbook uniquely expresses drug therapy in terms of the nursing process, nursing diagnoses, etiologies of toxicities and key points for

nursing assessment intervention and evaluation Updated annually this essential reference provides valuable information on effective symptom management patient education and chemotherapy administration Completely revised and updated the 2017 Oncology Nursing Drug Handbook includes separate chapters on molecular and immunologic biologic targeted therapies These chapters provide fundamental reviews to assist nurses in understanding the cellular communication pathways disrupted by cancer It also offers simplified content attention to understanding the immune checkpoint inhibitors new information about immunotherapy new drugs and their indications and updated indications and side effects for recently FDA approved drugs New drugs include alectin *Laboratory Manual for Physical Geology* Norris W. Jones, 2000-07 If it is important for you to incorporate the scientific method into your teaching this manual aims to help In every exercise there are scientific method boxes that provide students with insight into the relevance of the scientific method to the topic at hand The book also includes in greater depth problems a more challenging probe into certain issues They are more quantitative in nature and require more in depth critical thinking Internet exercises are also integrated throughout the text Virtual and Augmented Reality in English Language Arts Education Clarice M. Moran, Mary F. Rice, 2021-03-04 New times Expanded worlds Emerging possibilities In Using Virtual Reality in English Language Arts Education authors from multiple institutions across the United States and abroad share practical insights for teaching English language arts with virtual and augmented realities These chapters draw on multiple theories and ideas to share perspectives from practicing and prospective teachers as well as young learners themselves about how to use applications and tools to transform teaching and learning Collectively this book advances innovation for using virtual and augmented realities as educational inclusive spaces for teaching English language arts and literacy subject matter while supporting learners in developing the mindset for creativity innovation and even emotional empathy **Energy Research Abstracts** ,1994 **National Directory of Commodity Specifications** United States. National Bureau of Standards, 1925

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