

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 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: | |

Chemical Reactions Lab Answers

Minnesota. University



Chemical Reactions Lab Answers:

Chemistry (Teacher Guide) Dr. Dennis Englin, 2018-02-26 This book was created to help teachers as they instruct students through the Master's Class Chemistry course by Master Books The teacher is one who guides students through the subject matter helps each student stay on schedule and be organized and is their source of accountability along the way With that in mind this guide provides additional help through the laboratory exercises as well as lessons quizzes and examinations that are provided along with the answers The lessons in this study emphasize working through procedures and problem solving by learning patterns The vocabulary is kept at the essential level Practice exercises are given with their answers so that the patterns can be used in problem solving These lessons and laboratory exercises are the result of over 30 years of teaching home school high school students and then working with them as they proceed through college Guided labs are provided to enhance instruction of weekly lessons There are many principles and truths given to us in Scripture by the God that created the universe and all of the laws by which it functions It is important to see the hand of God and His principles and wisdom as it plays out in chemistry This course integrates what God has told us in the context of this study Features Each suggested weekly schedule has five easy to manage lessons that combine reading and worksheets Worksheets quizzes and tests are perforated and three hole punched materials are easy to tear out hand out grade and store Adjust the schedule and materials needed to best work within your educational program Space is given for assignments dates There is flexibility in scheduling Adapt the days to your school schedule Workflow Students will read the pages in their book and then complete each section of the teacher guide They should be encouraged to complete as many of the activities and projects as possible as well Tests are given at regular intervals with space to record each grade About the Author DR DENNIS ENGLIN earned his bachelor's from Westmont College his master of science from California State University and his EdD from the University of Southern California He enjoys teaching animal biology vertebrate biology wildlife biology organismic biology and astronomy at The Master's University His professional memberships include the Creation Research Society the American Fisheries Association Southern California Academy of Sciences Yellowstone Association and Au Sable Institute of Environmental Studies

CliffsNotes AP Chemistry Bobrow Test Preparation Services, 2009-02-09 The book itself contains chapter length subject reviews on every subject tested on the AP Chemistry exam as well as both sample multiple choice and free response questions at each chapter's end Two full length practice tests with detailed answer explanations are included in the book

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

E-biology Ii (science and Technology)' 2003 Ed. , EPIE Materials Report ,1977 *Stoichiometry Unit Project* Luann Marie Decker,1998 Teaching Reading Comprehension to Students with Learning Difficulties Sharon Vaughn,Alison Boardman,Janette K. Klingner,2024-06-25 Now in a revised and expanded third edition this important resource helps teachers understand how good readers comprehend text and how best to support students who are struggling It presents effective instructional methods for learners at all grade levels including those with reading disabilities Every chapter translates state of the art research into practical classroom applications All facets of comprehension are addressed including assessment vocabulary background knowledge and text structure Chapters also cover English learners intensive intervention and content literacy Utility as a teacher guide and course text is enhanced by sample lesson plans graphic organizers and chapter opening study questions New to This Edition Chapter on text selection and text structure Chapter on teachers frequently asked questions providing specific actionable advice More than twice as many sample lesson plans Revised throughout with the latest research and teaching techniques

CMBEBIH 2017 Almir Badnjevic,2017-03-14 This volume presents the proceedings of the International Conference on Medical and Biological Engineering held from 16 to 18 March 2017 in Sarajevo Bosnia and Herzegovina Focusing on the theme of Pursuing innovation Shaping the future it highlights the latest advancements in Biomedical Engineering and also presents the latest findings innovative solutions and emerging challenges in this field Topics include Biomedical Signal Processing Biomedical Imaging and Image Processing Biosensors and Bioinstrumentation Bio Micro Nano Technologies Biomaterials Biomechanics Robotics and Minimally Invasive Surgery Cardiovascular Respiratory and Endocrine Systems Engineering Neural and Rehabilitation Engineering Molecular Cellular and Tissue Engineering Bioinformatics and Computational Biology Clinical Engineering and Health Technology Assessment Health Informatics E Health and Telemedicine Biomedical Engineering Education Pharmaceutical Engineering

Instructors Manual to Lab Manual Ralph Petrucci,William Harwood,Geoffrey Herring,2001 *Heat Transfer & Fluid Flow Digest* ,1980 *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

Chemical Abstracts ,1921 *Journal of the American Medical Association* American Medical Association,1924 *Scientific and Technical Aerospace Reports* ,1963-11 **Scientific American** ,1883 **Science Spectrum** Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2003-03 The Bookseller, Newsdealer and Stationer ,1899 **Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science** ,2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction **Bulletin** Minnesota. University,1905 **Catalogue ... and Announcements** University of Minnesota,1905

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1 can bus symbol colours correspond to 4 pair ethernet cable colour code 2 1 2 3 4 5 6 7 8 9 mandated allocation defined in iso 15031 3 3 1 2 3 4 5 myn10 description of the nissan leaf obd ii diagnostic connector including protocols and pin assignments

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obd ii pids on board diagnostics parameter ids are codes used to request data from a vehicle used as a diagnostic tool sae standard j1979 defines many obd ii pids all on road vehicles and trucks sold in north america are required to support a subset of these codes primarily for state mandated emissions inspections

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jun 28 2022 home blog which obd2 protocol is supported by my vehicle blog by tj frearson june 28 2022 obd2 is a term that

is used in the automotive industry to refer to the onboard diagnostics system it s an upgraded version of obd1 and has more advanced features than its predecessor

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dec 14 2015 protocol used on pre 2005 nissan vehicles supported by rencom some vehicles may require manual wire connection to obd2 or nissan consult 14pin connector obd2 vehicles with ddl ecus have connected pins 12 and 13in obd ii nissan terrano 2000 obd ii no special requirements abs airbag

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obd ii changes things by making them the same what is the obd ii standard obd ii standardizes communication for the data link connector shape and pinout trouble codes and communication protocols obd ii allows any generic scan tool to connect and talk to any car this is good news for non specializing technicians

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proprietary can protocols only accessible through direct connection to can bold obdii protocols tested by aim italic suggested obdii protocols manufacturer model year obdii connection quick connection to obdii plug communication through proprietary can protocols if available or obdii standard protocols canbus direct connection

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jan 26 2004 the european union obd legislation is somewhat more complicated an obd ii compliant vehicle can use any of the five communication protocols j1850 pwm j1850 vpw iso9141 2 iso14230 4 also known as keyword protocol 2000 and more recently iso15765 4 sae j2480 a flavor of can

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