

## EXPERIMENT 8: Activity Series (Single Displacement Reactions)

### PURPOSE

- Reactions of metals with acids and salt solutions
- Determine the activity of metals
- Write a balanced molecular equation, complete ionic equation, and net ionic equation for single replacement reaction.

### Materials:

**Equipment:** 1 well-plate (Spot plates) or small test tubes

Stirring rod or toothpick

**Chemicals and solutions:** a tray containing the metals Mg, Pb, Cu, Zn, Fe, 1.0 M HCl and 0.25 M nitrate salt solutions of each of these metals such as:



**Note -** Before you begin this lab, you should be familiar with types of reactions found in chapter 4 of the text. Wear appropriate clothing, shoes and safety glasses for this lab.



Stirring rod



Spot plate

### INTRODUCTION

One of the most important characteristics of a metal is its activity (reactivity). The activity of a metal is its ability to react with nonmetals. In such reaction a metal typically loses electrons to the non-metal to form cations and the product is an ionic compound.

Different metals have different activities. Some metals are very active such as lithium, sodium, potassium, and cesium; some are slowly active such as tin, lead, and iron; and some are not active at all (inactive) such as copper, silver, and mercury. Inactive metals are those which resist oxidation (reaction with oxygen in air). These are often called the noble metals.

# Single Replacement Lab Key

**Bryan P. Bergeron**

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.

## Single Replacement Lab Key:

**Regents Exams and Answers: Chemistry--Physical Setting Revised Edition** Barron's Educational Series, Albert Tarendash, 2021-01-05 Barron's Regents Exams and Answers Chemistry provides essential practice for students taking the Chemistry Regents including actual recently administered exams and thorough answer explanations for all questions This book features Eight actual administered Regents Chemistry exams so students can get familiar with the test Thorough explanations for all answers Self analysis charts to help identify strengths and weaknesses Test taking techniques and strategies A detailed outline of all major topics tested on this exam A glossary of important terms to know for test day

*Prentice Hall Chemistry*, 2000      *Regents Chemistry--Physical Setting Power Pack Revised Edition* Albert S.

Tarendash, 2021-01-05 Barron's two book Regents Chemistry Power Pack provides comprehensive review actual administered exams and practice questions to help students prepare for the Chemistry Regents exam This edition includes Regents Exams and Answers Chemistry Eight actual administered Regents Chemistry exams so students can get familiar with the test Thorough explanations for all answers Self analysis charts to help identify strengths and weaknesses Test taking techniques and strategies A detailed outline of all major topics tested on this exam A glossary of important terms to know for test day Let's Review Regents Chemistry Extensive review of all topics on the test Extra practice questions with answers A detailed introduction to the Regents Chemistry course and exam One actual recently released Regents Chemistry exam with an answer key

**Bioinformatics Computing** Bryan P. Bergeron, 2003 Comprehensive and concise this handbook has chapters on computing visualization large database designs advanced pattern matching and other key bioinformatics techniques It is a practical guide to computing in the growing field of Bioinformatics the study of how information is represented and transmitted in biological systems starting at the molecular level      *Oracle SQL Interactive Workbook* Alex Morrison, Alice Rischert, 2000 Written by some of the world's leaders in communications this is a hands on example rich guide to simulating communications systems The first book to present complete simulation models built with MATLAB it offers practical guidance on every key aspect of simulation as well as detailed models that can serve as laboratories for evaluating the potential impact of changes in system design

**Flip Your Classroom** Jonathan Bergmann, Aaron Sams, 2023 This revised edition of the groundbreaking book shares innovators Jonathan Bergmann and Aaron Sams's insights on how to successfully flip a classroom and covers new advances in the field It started with a simple observation Students need their teachers present to answer questions or to provide help if they get stuck on an assignment they don't need their teachers present to listen to a lecture or review content From there Jon Bergmann and Aaron Sams began the flipped classroom Students watched recorded lectures for homework and completed their assignments labs and tests in class with their teacher available What they found was that their students demonstrated a deeper understanding of the material than ever before This is the authors story updated and expanded to ensure it's as relevant to your classroom as ever The revised edition

includes New case studies illustrating flipped learning applied by an individual teacher and across a school district A new appendix focused on best practices for creating videos for your classes Educator examples that demonstrate the ISTE Standards in action Updates to tools terms and resources to reflect the current learning landscape In the revised edition of this landmark text you ll discover the flipped mastery model that allows students to learn at their own pace furthering opportunities for personalized education This simple concept is easily replicable in any classroom doesn t cost much to implement and helps foster self directed learning Audience Elementary and secondary classroom teachers *Catalog of Copyright Entries. Third Series* Library of Congress. Copyright Office,1973 Resources for Teaching Middle School Science Smithsonian Institution,National Academy of Engineering,National Science Resources Center of the National Academy of Sciences,Institute of Medicine,1998-04-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them Resources for Teaching Middle School Science developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of Resources for Teaching Elementary School Science the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering information The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide The criteria reflect and incorporate goals and principles of the National Science Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science and teaching directories and guides to science trade books and periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind Resources for Teaching Middle School Science will be the most used book on the shelf for science teachers school administrators teacher

trainers science curriculum specialists advocates of hands on science teaching and concerned parents

**Mini Dental Implants** Victor Dr. Sendax, 2012-10-03 Covering the latest advances in mini dental implant technology Mini Dental Implants Principles and Practice makes it easy to incorporate MDIs into your practice An illustrated evidence based approach shows how MDIs can provide successful outcomes in long term use and also in shorter term transitional applications This success is proven by 20 years of clinical trials and research showing that the Sendax Mini Dental Implant System can benefit your patients with faster surgery reduced pain faster healing and less risk of infection Written by noted implant dentistry expert Dr Victor I Sendax this text allows you to offer patients a minimally invasive immediately functional and lower cost alternative to traditional dental implants Easy to understand coverage from different perspectives allows you to access information most applicable to your own practice and to learn more about the other roles involved in achieving successful outcomes including the general practitioner periodontist oral maxillofacial surgeon maxillofacial prosthodontist orthodontist and laboratory technician An advanced approach with evidence based outcomes clearly demonstrates the success of mini dental implant technology and keeps you on the cutting edge of the science of implantology Well known author Dr Victor I Sendax is a diplomate past president of The American Board of Oral Implantology Implant Dentistry and The American Academy of Implant Dentistry and winner of the 2012 AAID Research Foundation Award Step by step instructions show the basic protocol for Sendax MDI insertion and reconstruction Highly regarded contributors add their expertise to discussions of MDI technology and practice A discussion of Engineering Assisted Surgery™ EASTM enhances your care by improving diagnosis and 3 D planning reducing intervention trauma and improving the standardization of quality and outcomes Clinician s MDI Forum includes Q A sections allowing you to quickly find answers to commonly asked questions

*Programmed Learning and Individually Paced Instruction* Carl H. Hendershot, 1973

**CRC Handbook of Laboratory Safety, 5th Edition** A. Keith Furr, 2000-04-12 Expanded and updated The CRC Handbook of Laboratory Safety Fifth Edition provides information on planning and building a facility developing an organization infrastructure planning for emergencies and contingencies choosing the correct equipment developing operational plans and meeting regulatory requirements Still the essential reference tool the New Edition helps you organize your safety efforts to adhere to the latest regulations and use the newest technology Thoroughly revised the CRC Handbook of Laboratory Safety Fifth Edition includes new OSHA laboratory safety standards the 1994 NRC radiation safety standards guidelines for X ray use in hospitals enforcement of standards for dealing with blood borne pathogens OSHA actions covering hazardous waste operations and emergency response and the latest CDC guidelines for research with microbial hazards Every word on every page has been scrutinized and literally hundreds of changes have been made to bring the material up to date See what s new in the New Edition New figures and tables illustrating the new material Internet references in addition to journal articles Changes in the Clean Air Act regarding incineration of hospital medical and infectious waste Obsolete articles removed and replaced over one hundred

pages of new material New information on respiratory protection guidelines      *108-1 Hearings: Departments of Labor, Health and Human Services, Education, and Related Agencies Appropriations For 2004, Part 3, March 27, 2003, \**,2003

Basic Concepts of Chemistry Leo J. Malone, Theodore Dolter, 2008-12-03 Engineers who need to have a better understanding of chemistry will benefit from this accessible book It places a stronger emphasis on outcomes assessment which is the driving force for many of the new features Each section focuses on the development and assessment of one or two specific objectives Within each section a specific objective is included an anticipatory set to orient the reader content discussion from established authors and guided practice problems for relevant objectives These features are followed by a set of independent practice problems The expanded Making it Real feature showcases topics of current interest relating to the subject at hand such as chemical forensics and more medical related topics Numerous worked examples in the text now include Analysis and Synthesis sections which allow engineers to explore concepts in greater depth and discuss outside relevance      *Lab-on-a-chip Devices for Advanced Biomedicines* Arpana Parihar, Piyush Pradeep Mehta, 2024-08-14 The global miniature devices market is poised to surpass a valuation of 12 15 billion USD by the year 2030 Lab on a chip LOC devices are a vital component of this market Comprising a network of microchannels electrical circuits sensors and electrodes LOC is a miniaturized integrated device platform used to streamline day to day laboratory functions run cost effective clinical analyses and curb the need for centralized instrumentation facilities in remote areas Compact design portability ease of operation low sample volume short reaction time and parallel investigation stand as the pivotal factors driving the widespread acceptance of LOC within the biomedical community In this book the Editors meticulously explore LOC through three key Ts Theories microfluidics microarrays instrumentation software Technologies additive manufacturing artificial intelligence computational thinking smart consumables scale up tactics and biofouling and Trends biomedical analysis point of care diagnostics personalized healthcare bioactive synthesis disease diagnosis and space applications This comprehensive text not only provides readers with a thorough understanding of the current advancements in the LOC domain but also offers valuable insights to support the utilization of miniaturized devices for enhanced healthcare practices Aimed at career researchers looking for instruction in the topic and newcomers to the area the book is also useful for undergraduate and postgraduate students embarking on new studies or for those interested in reading about the LOC platform      *Homework Helpers: Chemistry, Revised Edition* Greg Curran, 2011-04-15 Homework Helpers Chemistry is a user friendly review book that will make every student or parent trying to help their child feel like he or she has a private Chemistry tutor Concepts are explained in clear easy to understand language and problems are worked out with step by step methods that are easy to follow Each lesson comes with numerous review questions and answer keynotes that explain each correct answer and why it s correct This book covers all of the topics in a typical one year Chemistry curriculum including A systematic approach to problem solving conversions and the use of units Naming compounds writing formulas and balancing

chemical equations Gas laws chemical kinetics acids and bases electrochemistry and more While Homework Helpers Chemistry is an excellent review for any standardized Chemistry test including the SAT II its real value is in providing support and guidance during the year's entire course of study **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

*Exploring the role of microorganisms in silages: species, communities, interactions, and functional characteristics* Siran Wang, Qing Zhang, Ashwani Kumar, 2023-06-29 Legislative Establishment Appropriation Bill United States. Congress. House. Committee on Appropriations, 2016 **Quality Assurance of Chemical Measurements** John Keenan Taylor, 1984

**Standard Reference Materials** John K. Taylor, 1997-07 This handbook was prepared with the objective of improving the understanding of the basis for the use of Standard Reference Materials SRMs While written from the viewpoint of a chemist the basic concepts described are believed to be applicable to most areas of metrology The handbook is arranged by section in a logical progression starting with the basic concepts of precision accuracy followed by discussions of the calibration quality assurance of the measurement process the use of SRMs to evaluate various kinds of measurements the reporting of data with evaluated limits of uncertainty Charts tables

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
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