

Unit Activity Series

What is the relationship between the activity series and the periodic table?

Objectives

After completing this unit activity series, you will be able to: 1. Predict the products of a chemical reaction. 2. Predict the products of a chemical reaction. 3. Predict the products of a chemical reaction. 4. Predict the products of a chemical reaction. 5. Predict the products of a chemical reaction. 6. Predict the products of a chemical reaction. 7. Predict the products of a chemical reaction. 8. Predict the products of a chemical reaction. 9. Predict the products of a chemical reaction. 10. Predict the products of a chemical reaction.

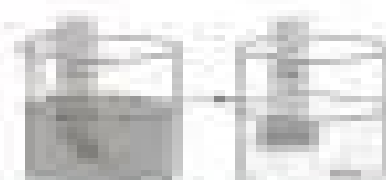
Model 1 – Reactivity of Metals



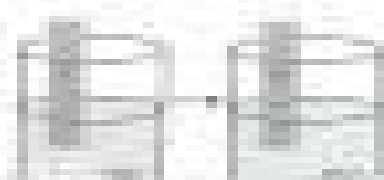
1a. $M + H_2O \rightarrow \text{no reaction}$



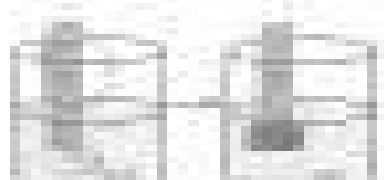
1b. $M + H_2O \rightarrow \text{no reaction}$



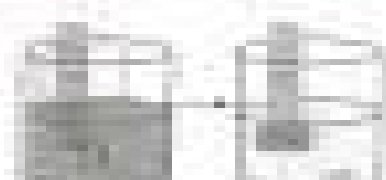
1c. $M + H_2O \rightarrow \text{no reaction}$



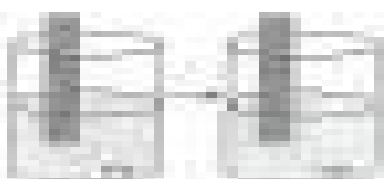
2a



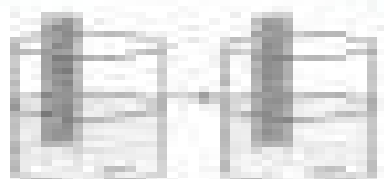
2b



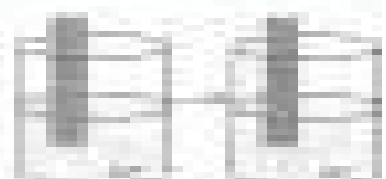
2c



3a



3b



3c

What is the relationship between the activity series and the periodic table?

The activity series

The Activity Series Pogil Key

Shawn R. Simonson



The Activity Series Pogil Key:

POGIL Shawn R. Simonson, 2023-07-03 Process Oriented Guided Inquiry Learning POGIL is a pedagogy that is based on research on how people learn and has been shown to lead to better student outcomes in many contexts and in a variety of academic disciplines Beyond facilitating students mastery of a discipline it promotes vital educational outcomes such as communication skills and critical thinking Its active international community of practitioners provides accessible educational development and support for anyone developing related courses Having started as a process developed by a group of chemistry professors focused on helping their students better grasp the concepts of general chemistry The POGIL Project has grown into a dynamic organization of committed instructors who help each other transform classrooms and improve student success develop curricular materials to assist this process conduct research expanding what is known about learning and teaching and provide professional development and collegiality from elementary teachers to college professors As a pedagogy it has been shown to be effective in a variety of content areas and at different educational levels This is an introduction to the process and the community Every POGIL classroom is different and is a reflection of the uniqueness of the particular context the institution department physical space student body and instructor but follows a common structure in which students work cooperatively in self managed small groups of three or four The group work is focused on activities that are carefully designed and scaffolded to enable students to develop important concepts or to deepen and refine their understanding of those ideas or concepts for themselves based entirely on data provided in class not on prior reading of the textbook or other introduction to the topic The learning environment is structured to support the development of process skills such as teamwork effective communication information processing problem solving and critical thinking The instructor s role is to facilitate the development of student concepts and process skills not to simply deliver content to the students The first part of this book introduces the theoretical and philosophical foundations of POGIL pedagogy and summarizes the literature demonstrating its efficacy The second part of the book focusses on implementing POGIL covering the formation and effective management of student teams offering guidance on the selection and writing of POGIL activities as well as on facilitation teaching large classes and assessment The book concludes with examples of implementation in STEM and non STEM disciplines as well as guidance on how to get started Appendices provide additional resources and information about The POGIL Project

Process Oriented Guided Inquiry Learning (POGIL) Richard Samuel Moog, 2008 POGIL is a student centered group learning pedagogy based on current learning theory This volume describes POGIL s theoretical basis its implementations in diverse environments and evaluation of student outcomes

Organic Chemistry Suzanne M. Ruder, The POGIL Project, 2015-12-29 ORGANIC CHEMISTRY

What Inclusive Instructors Do Tracie Marcella Addy, Derek Dube, Khadijah A. Mitchell, Mallory SoRelle, 2023-07-03 This book uniquely offers the distilled wisdom of scores of instructors across ranks disciplines and institution types whose contributions are organized into a thematic framework that progressively

introduces the reader to the key dispositions principles and practices for creating the inclusive classroom environments in person and online that will help their students succeed The authors asked the hundreds of instructors whom they surveyed as part of a national study to define what inclusive teaching meant to them and what inclusive teaching approaches they implemented in their courses The instructors voices ring loudly as the authors draw on their responses building on their experiences and expertise to frame the conversation about what inclusive teachers do The authors in addition describe their own insights and practices integrating and discussing current literature relevant to inclusive teaching to ensure a research supported approach Inclusive teaching is no longer an option but a vital teaching competency as our classrooms fill with racially diverse first generation and low income and working class students who need a sense of belonging and recognition to thrive and contribute to the construction of knowledge The book unfolds as an informal journey that allows the reader to see into other teachers practices With questions for reflection embedded throughout the book the authors provide the reader with an inviting and thoughtful guide to develop their own inclusive teaching practices By utilizing the concepts and principles in this book readers will be able to take steps to transform their courses into spaces that are equitable and welcoming and adopt practical strategies to address the various inclusion issues that can arise The book will also appeal to educational developers and staff who support instructors in their inclusive teaching efforts It should find a place in reflective workshops book clubs and learning communities exploring this important topic

Modern NMR Spectroscopy in Education David Rovnyak, 2007 This book is intended to be a comprehensive resource for educators seeking to enhance NMR enabled instruction in chemistry This book describes a host of new modern laboratories and experiments

Chemists' Guide to Effective Teaching Norbert J. Pienta, Melanie M. Cooper, Thomas J. Greenbowe, 2005 For courses in Methods of Teaching Chemistry Useful for new professors chemical educators or students learning to teach chemistry Intended for anyone who teaches chemistry or is learning to teach it this book examines applications of learning theories presenting actual techniques and practices that respected professors have used to implement and achieve their goals Each chapter is written by a chemist who has expertise in the area and who has experience in applying those ideas in their classrooms This book is a part of the Prentice Hall Series in Educational Innovation for Chemistry

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