

# POGIL: Periodic Table Trends

(Adapted from: <https://www.khanacademy.org/a/periodic-table-trends>)

## Why?

Chemists have been able to predict trends in the behavior of atoms in atoms, molecules, and ionic compounds, and to predict the properties of these substances. Chemists understand, for example, predicting and making choices in chemical reactions and synthesis that make sense. But what's behind the properties of the elements? How do we know that trends in these properties are true? We can't predict everything, but we can predict the behavior of the elements.



## Periodic Table

The periodic table is organized into groups and periods.

**Groups:** The vertical columns of the periodic table.

The periodic table is organized into groups and periods. The groups are the vertical columns, and the periods are the horizontal rows.

## Periodic Trends

Chemists have been able to predict trends in the behavior of atoms in atoms, molecules, and ionic compounds, and to predict the properties of these substances.

## Periodic Trends

Chemists have been able to predict trends in the behavior of atoms in atoms, molecules, and ionic compounds, and to predict the properties of these substances.

1. What happens to the number of valence electrons as you go from a group to the next group? (They are the same.)

2. What happens to the number of valence electrons as you go from a group to the next group? (They are the same.)

3. What happens to the number of valence electrons as you go from a group to the next group? (They are the same.)

What happens?

4. What happens to the number of valence electrons as you go from a group to the next group? (They are the same.)

5. What happens to the number of valence electrons as you go from a group to the next group? (They are the same.)

6. What happens to the number of valence electrons as you go from a group to the next group? (They are the same.)

7. What happens to the number of valence electrons as you go from a group to the next group? (They are the same.)

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11. What happens to the number of valence electrons as you go from a group to the next group? (They are the same.)

12. What happens to the number of valence electrons as you go from a group to the next group? (They are the same.)

13. What happens to the number of valence electrons as you go from a group to the next group? (They are the same.)

# The Periodic Table Of Elements Pogil

**Desmond Grosvenor Cooper**



## **The Periodic Table Of Elements Pogil:**

**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

**Chemical Pedagogy** Keith S Taber, 2024-12-20 How should chemistry be taught in schools colleges and universities Chemical Pedagogy discusses teaching approaches and techniques the reasoning behind them and the evidence for their effectiveness The book surveys a wide range of different pedagogic strategies and tactics that have been recommended to better engage learners and provide

more effective chemistry teaching These accounts are supported by an initial introduction to some key ideas and debates about pedagogy the science of teaching Chemical Pedagogy discusses how teaching innovations can be tested to inform research based practice Through this book the author explores the challenges of carrying out valid experimental studies in education and the impediments to generalising study results to diverse teaching and learning contexts As a result the author highlights both the need to read published studies critically and the value of teachers and lecturers testing out recommended innovations in their own classrooms Chemical Pedagogy introduces core principles from research into human cognition and learning to provide a theoretical perspective on how to best teach for engagement and understanding An examination of some of the more contentious debates about pedagogy leads to the advice to seek optimally guided instruction which balances the challenge offered to learners with the level of support provided This provides a framework for discussing a wide range of teaching approaches and techniques that have been recommended to those teaching chemistry across educational levels including both those intended to replace teaching from the front and others that can be built into traditional lecture courses to enhance the learning experience Conference Proceedings. New Perspectives in Science Education Pixel,2015

**Metropolitan Universities** ,2006

**Cooperative Learning in Higher Education** Barbara Millis,2023-07-03

Research has identified cooperative learning as one of the ten High Impact Practices that improve student learning If you ve been interested in cooperative learning but wondered how it would work in your discipline this book provides the necessary theory and a wide range of concrete examples Experienced users of cooperative learning demonstrate how they use it in settings as varied as a developmental mathematics course at a community college and graduate courses in history and the sciences and how it works in small and large classes as well as in hybrid and online environments The authors describe the application of cooperative learning in biology economics educational psychology financial accounting general chemistry and literature at remedial introductory and graduate levels The chapters showcase cooperative learning in action at the same time introducing the reader to major principles such as individual accountability positive interdependence heterogeneous teams group processing and social or leadership skills The authors build upon and cross reference each others chapters describing particular methods and activities in detail They explain how and why they may differ about specific practices while exemplifying reflective approaches to teaching that never fail to address important assessment issues **Organic**

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

**Atoms, Molecules & Elements: Patterns In the Periodic Table Gr. 5-8** George Graybill,2015-10-01 This is the chapter slice Patterns In the Periodic Table from the full lesson plan Atoms Molecules Elements Young scientists will be thrilled to explore the invisible world of atoms molecules and elements Our resource provides ready to use information and activities for remedial students using simplified language and vocabulary Students will label each part of the atom learn what compounds are and explore the patterns in the periodic table of elements to find calcium Ca chlorine Cl and helium He through hands on activities These and more science

concepts are presented in a way that makes them more accessible to students and easier to understand Written to grade and using simplified language and vocabulary and comprised of reading passages student activities crossword word search comprehension quiz and color mini posters our resource can be used effectively for test prep and your whole class All of our content is aligned to your State Standards and are written to Bloom s Taxonomy and STEM initiatives *Atoms, Molecules & Elements: The Periodic Table Gr. 5-8* George Graybill,2015-10-01 This is the chapter slice The Periodic Table from the full lesson plan Atoms Molecules Elements Young scientists will be thrilled to explore the invisible world of atoms molecules and elements Our resource provides ready to use information and activities for remedial students using simplified language and vocabulary Students will label each part of the atom learn what compounds are and explore the patterns in the periodic table of elements to find calcium Ca chlorine Cl and helium He through hands on activities These and more science concepts are presented in a way that makes them more accessible to students and easier to understand Written to grade and using simplified language and vocabulary and comprised of reading passages student activities crossword word search comprehension quiz and color mini posters our resource can be used effectively for test prep and your whole class All of our content is aligned to your State Standards and are written to Bloom s Taxonomy and STEM initiatives **The Periodic Table** DK,2025-09-04 This is the periodic table as you ve never seen it before By presenting the elements in the order in which they were discovered The Periodic Table also tells the story of chemistry Now iconic the table was invented in the 1800s long before anyone knew what was inside an atom As more elements were found the table got bigger Some were discovered at risk to life and limb for example the hunt for the explosive element fluorine injured or even killed several scientists who came to be known as the fluorine martyrs Even now the table is still growing as scientists push the boundaries and add to the 118 elements discovered so far Some of the newest elements have been observed only as they briefly flicker into existence in the extreme conditions inside particle colliders and accelerators Gorgeous photographs show even the most familiar elements in a new light Bold clear infographics and artworks reveal aspects of their atomic structure that explain why they behave the way they do For example why is gold so malleable and diamond so incredibly hard How can bismuth levitate and why does cobalt make paint such a vivid blue If you want to unlock the secrets of matter itself open The Periodic Table [The Periodic Table](#) Desmond Grosvenor Cooper,1968 [The Periodic Table Book](#) DK,2017-03-30 This eye popping encyclopedia takes you on a tour of all the world s elements From argon to zinc each and every one of the 118 chemical elements are explored in dazzling detail With the periodic table celebrating its 150th anniversary in 2019 you ll be in your element as you discover the incredible variety of building blocks that make up our Universe and learn the remarkable ways we now use them More than 1 000 photographs showcase the natural forms of each element and the range of everyday and unusual objects where they can be seen This helps children understand exactly where the different elements have found their place in the world The true science behind the elements is explained in properties atomic structure and table position This

essential book turns the tables on traditional reference and presents the periodic table as never before to appeal to school children today Included is a giant glossy pull out poster perfect to aid classroom discussions or to dazzle on bedroom walls

Mastering the Periodic Table Linda Trombley,Faye Williams,2000 Whether students are studying chemistry biology or other sciences the periodic table is a vitally important tool These 50 word games puzzles and other creative activities unlock the nature of the various elements while explicating periodicity atomic structure element groups and more Complete teacher support includes background information answer keys and materials lists     *The Periodic Table* Adrian Dingle,Dan Green,2014 The original Basher Science made even better     Sorting The Elements Barber,2007-08-01 Explores Elements And Atoms Rows And Columns Common Elements Metals And Nonmetals And Elements Into Compounds     **The Discovery of the Periodic Table of the Chemical Elements** Torsten Schmiernund,2022 150 years ago in 1869 D I Mendeleev and L Meyer independently published their ideas on the arrangement of the chemical elements in a periodic system The United Nations and UNESCO therefore declared 2019 the International Year of the Periodic Table The question arises what is so special about this simple table Join the author on a short journey to the history of the periodic table Learn about its predecessors and look at how the periodic table of elements has evolved over the years Discover the periodic properties of the elements Learn what makes the periodic table so interesting and timeless and see what other ideas there are and have been for representing it The content Atomic theories atomic structure and atomic masses Early attempts to systematize the elements Mendeleev s periodic table and periodicities of the elements Alternative periodic systems The target groups Students and lecturers of chemistry especially history of chemistry Teachers and students as well as those interested in the history of chemistry The author Torsten Schmiernund has been working as a chemical technician in the chemical industry for many years This book is a translation of an original German edition The translation was done with the help of artificial intelligence machine translation by the service DeepL com A subsequent human revision was done primarily in terms of content so that the book will read stylistically differently from a conventional translation     *Mystery of the Periodic Table* Benjamin D Wiker,2003-04-18 Leads the reader on a delightful and absorbing journey through the ages on the trail of the elements of the Periodic Table as we know them today He introduces the young reader to people like Von Helmholtz Boyle Stahl Priestly Cavendish Lavoisier and many others all incredibly diverse in personality and approach who have laid the groundwork for a search that is still unfolding to this day The first part of Wiker s witty and solidly instructive presentation is most suitable to middle school age while the later chapters are designed for ages 12 13 and up with a final chapter somewhat more advanced Illustrated by Jeanne Bendick and Ted Schluenderfritz     *Chemical Elements Pocket Guide* Coventry House Publishing,2020-02-08 The Chemical Elements Pocket Guide serves as a portable reference for quick study and efficient review of the 118 elements on the periodic table This on the go resource details the physical and atomic properties of each element as well as their history and characteristics in bullet point format The book s small trim size 4 25 x 6 8 inches is

intended to fit inside a lab coat pocket and the bound design means you no longer need to carry loose bulky flashcards that can be misplaced or destroyed Includes the updated names nihonium moscovium tennessine and oganesson for elements 113 115 117 and 118 respectively Information provided includes Atomic number Atomic symbol Element category Standard state Atomic mass Electron configuration Oxidation states Electronegativity Atomic radius Ionization energy Electron affinity Melting point Boiling point Density Year discovered Discovered by Appearance Natural occurrence Interesting fact

**The Periodic Table I** D. Michael P. Mingos, 2020-02-05 As 2019 has been declared the International Year of the Periodic Table it is appropriate that Structure and Bonding marks this anniversary with two special volumes In 1869 Dmitri Ivanovitch Mendeleev first proposed his periodic table of the elements He is given the major credit for proposing the conceptual framework used by chemists to systematically inter relate the chemical properties of the elements However the concept of periodicity evolved in distinct stages and was the culmination of work by other chemists over several decades For example Newland s Law of Octaves marked an important step in the evolution of the periodic system since it represented the first clear statement that the properties of the elements repeated after intervals of 8 Mendeleev s predictions demonstrated in an impressive manner how the periodic table could be used to predict the occurrence and properties of new elements Not all of his many predictions proved to be valid but the discovery of scandium gallium and germanium represented sufficient vindication of its utility and they cemented its enduring influence Mendeleev s periodic table was based on the atomic weights of the elements and it was another 50 years before Moseley established that it was the atomic number of the elements that was the fundamental parameter and this led to the prediction of further elements Some have suggested that the periodic table is one of the most fruitful ideas in modern science and that it is comparable to Darwin s theory of evolution by natural selection proposed at approximately the same time There is no doubt that the periodic table occupies a central position in chemistry In its modern form it is reproduced in most undergraduate inorganic textbooks and is present in almost every chemistry lecture room and classroom This first volume provides chemists with an account of the historical development of the Periodic Table and an overview of how the Periodic Table has evolved over the last 150 years It also illustrates how it has guided the research programmes of some distinguished chemists

**The Periodic Table in Minutes** Dan Green, 2016-09-06 An icon of science the Periodic Table defines the fundamental chemistry of everything in the universe In this compact yet comprehensive guide Dan Green outlines the history development and workings of the table shows how its design reflects and illuminates the organisation of all matter and even explains what it has to tell us about the chemistry of distant stars and of our own bodies Contents include an individual entry for every known element detailing properties uses and key data and sections on the patterns and groups of the famous table as well as explanations of basic chemistry concepts such as elements and compounds atomic structure chemical bonds reactions and radioactivity amongst many others

Embark on a breathtaking journey through nature and adventure with is mesmerizing ebook, Witness the Wonders in **The Periodic Table Of Elements Pogil** . This immersive experience, available for download in a PDF format ( Download in PDF: \*), transports you to the heart of natural marvels and thrilling escapades. Download now and let the adventure begin!

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