

The Periodic Table

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The Secret Life of the Periodic Table
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The Periodic Table: A Very Short Introduction
The Periodic Table
Elementary
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How the World Works: The Periodic Table
The Periodic Table
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Exploring the Elements
The Periodic Table of the Elements
A Brief History of the Periodic Table
The Elements
Understanding the Periodic Table
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the periodic table is one of the most potent icons in science it lies at the core of chemistry and embodies the most fundamental principles of the field the one definitive text on the development of the periodic table by van spronsen 1969 has been out of print for a considerable time the present book provides a successor to van spronsen but goes further in giving an evaluation of the extent to which modern physics has or has not explained the periodic system the book is written in a lively style to appeal to experts and interested lay persons alike the periodic table begins with an overview of the importance of the periodic table and of the elements and it examines the manner in which the term element has been interpreted by chemists and philosophers the book then turns to a systematic account of the early developments that led to the classification of the elements including the work of lavoisier boyle and dalton and cannizzaro the precursors to the periodic system like döbereiner and gmelin are discussed in chapter 3 the discovery of the periodic system by six independent scientists is examined in detail two chapters are devoted to the discoveries of mendeleev the leading discoverer including his predictions of new elements and his accommodation of already existing elements chapters 6 and 7 consider the impact of physics including the discoveries of radioactivity and isotopy

and successive theories of the electron including bohr's quantum theoretical approach chapter 8 discusses the response to the new physical theories by chemists such as lewis and bury who were able to draw on detailed chemical knowledge to correct some of the early electronic configurations published by bohr and others chapter 9 provides a critical analysis of the extent to which modern quantum mechanics is or is not able to explain the periodic system from first principles finally chapter 10 considers the way that the elements evolved following the big bang and in the interior of stars the book closes with an examination of further chemical aspects including lesser known trends within the periodic system such as the knight's move relationship and secondary periodicity as well as attempts to explain such trends

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 helmoltz 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

the periodic table is the way scientists have organized the known elements but up and coming scientists can learn much from the periodic table as well your readers will learn how to read the periodic table including what an element's atomic number means and what the rows and columns signify they'll gather facts about common and interesting elements and even discover how they can predict how elements might chemically react from their position in the table fact boxes and images add additional information to the accessible text

every element has character be it volatile aloof gregarious or enigmatic they also have incredible stories of how they came to be how they were discovered and how their qualities have been harnessed to make everything we have in the world dr ben still takes you through all the groups revealing the fascinating circumstances of their discoveries and explaining their characteristics and behaviour often delving inside the atom to explain their structure in a way easily accessible to everyone insightful illustrations help you to understand even the most complex looking aspects of quantum physics bringing the periodic table to life incredibly enlightening the secret life of the periodic table will entertain and inform in equal measure take a trip through the ages of exploration enjoying the story of how mendeleev's table came to be it is the story of one of the greatest pattern seeking accomplishments of humankind contents include atomic physics the quantum atom trends and patterns alkaline earth metals metalloids future elements

the periodic table is one of the most recognizable images in science and in our culture its 118 elements make up everything on our planet and in the entire universe but how

many of us actually know how to interpret its distinctive design and what does its unique arrangement tell us about the behaviour of each element in the world around us the periodic table looks at the fascinating story and surprising history of each of these elements from the little known uses of gold in medicine to that of arsenic as a wallpaper dye in the nineteenth century and the development of the hydrogen bomb packed with interesting facts and figures and helpful illustrations this accessible guide will help the armchair chemist navigate through the different groups of elements and discover the world afresh

the periodic table of elements first encountered by many of us at school provides an arrangement of the chemical elements ordered by their atomic number electron configuration and recurring chemical properties and divided into periodic trends in this very short introduction eric r scerri looks at the trends in properties of elements that led to the construction of the table and shows how the deeper meaning of the table's structure gradually became apparent with the development of atomic theory and in particular quantum mechanics which underlies the behaviour of all of the elements and their compounds this new edition publishing in the international year of the periodic table celebrates the completion of the seventh period of the table with the ratification and naming of elements 113 115 117 and 118 as nihonium moscovium tennessine and oganesson eric r scerri also incorporates new material on recent advances in our understanding of the origin of the elements as well as developments concerning group three of the periodic table about the series the very short introductions series from oxford university press contains hundreds of titles in almost every subject area these pocket sized books are the perfect way to get ahead in a new subject quickly our expert authors combine facts analysis perspective new ideas and enthusiasm to make interesting and challenging topics highly readable

style homepages introduce to budding chemists each of the chemical elements from the periodic table complete with witty and informative profiles written by the elements themselves

authoritative science to engage even the most unscientific chemistry's most significant chart the periodic table and its 118 elements is laid bare in this lively accessible and compelling expose

which is the densest element which has the largest atoms and why are some elements radioactive from the little known uses of gold in medicine to the development of the hydrogen bomb this is a fresh new look at the periodic table combining cutting edge science with fascinating facts and stunning infographics this book looks at the extraordinary stories of discovery amazing properties and surprising uses of each elements whether solid liquid or gas naturally occurring synthesised or theoretical from hydrogen to oganesson this is a fact filled visual guide to each element each accompanied by technical data category atomic number weight boiling point as well as fun facts and stories about their discovery and surprising uses

a sweeping history of both the discovery and classification of elements and the development of the modern periodic table included are discussions of the discovery of matter atoms atomic structure molecules compounds ions and isotopes as well as the first identifications of the 118 and counting elements and the various ways they have been classified and organized by prominent scientists up to the present day periodic table instruction in how to read the periodic table is accompanied by examinations of the various groups of elements their location on the table and their properties and practical uses this text strongly supports common core standards for the reading of scientific and technical texts and accounts and furnishes ample opportunities to summarize cite evidence and analyze connections between ideas individuals and events

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

a short guide to one of the most celebrated diagrams in the history of science a tool for understanding the basic building blocks of the universe

everything in the universe is made of chemical elements including you in 1869 russian chemist dmitri mendeleev produced a periodic table designed to illustrate the properties of the known elements this arrangement of the elements in order of increasing atomic number was an important milestone in the development of chemistry and led to the establishment of periodic law written in a straightforward easily comprehensible way the periodic table explores the story of each element describing the people who discovered them and taking us on a journey of discovery into what the whole world is made of

the periodic table its story and its significance traces the evolution and development of the periodic table from mendeleev s 1869 first published table and onto the modern understanding provided by modern physics

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

science meets design in this comprehensive introduction to the chemical elements that make up our universe

the story of dmitri ivanovich mendeleev and his brain child periodic table of chemical elements with all its impact and influences would fit better within the walls of a library than between the covers of a single book of nearly 100 pages the present book a brief history of the periodic table would attract experts and curious laymen alike due to its lively style of narration the book contains eight chapters

explore the current and future applications of common elements from the periodic table of elements with the elements of chemistry series each volume features the discovery history and present uses of one vital element from the periodic table of elements discover the effects of these basic building blocks have on major world industries including energy production health and wellness and fabrication high school readers will come to a deeper understanding of how important and life giving elements can be and their broad ranging impact on everyday life on earth all titles also feature useful teacher resources such as rubrics and extension activities to aid in lesson planning and inspire creative discussions every book in the series includes a map timeline slideshow quiz and detailed diagrams which allow for comprehensive study of each title subject

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