

ISOTOPES AND AVERAGE ATOMIC MASS

Name _____

Elements come in a variety of isotopes, meaning they are made up of atoms with the same atomic number but different atomic masses. These atoms differ in the number of neutrons.

The average atomic mass is the weighted average of all the isotopes of an element.

Example: A sample of cesium is 75% ^{133}Cs , 20% ^{132}Cs and 5% ^{134}Cs . What is its average atomic mass?

Answer: $.75 \times 133 = 99.75$

$.20 \times 132 = 26.4$

$.05 \times 134 = \underline{6.7}$

Total = 132.85 amu = average atomic mass

Determine the average atomic mass of the following mixtures of isotopes.

1. 80% ^{127}I , 17% ^{126}I , 3% ^{128}I

2. 50% ^{197}Au , 50% ^{198}Au

3. 15% ^{55}Fe , 85% ^{56}Fe

4. 99% ^1H , 0.8% ^2H , 0.2% ^3H

5. 95% ^{14}N , 3% ^{15}N , 2% ^{16}N

6. 98% ^{12}C , 2% ^{14}C

Periodic Table Chemistry If8766

Ying-Ying Zheng



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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

Periodic Table, The: Past, Present, And Future Geoff Rayner-canham, 2020-08-04 This is an an absolutely wonderful book that is full of gems about the elements and the periodic table All in all the book is highly recommended to philosophers of chemistry As philosophers we have a natural tendency to concentrate on generalities and not to get too involved in the specifics and the details Above all else this new book reminds us that such an approach needs to be tempered by a detailed knowledge of the exceptions and features that go against the simplified generalities which we so cherish Read Full Review Eric Scerri Foundations of Chemistry Many questions are dealt with in a clearly written way in this stimulating and innovative book The reader will quickly become interested in the subject and will be taken on tour through this Periodic Table in a very readable way both for students and teachers The number of illustrations is good and clear This book is indeed unique and quite thought provoking This book is highly recommended for students teachers researchers and not only chemists Geologists biochemist and also physicists will find it very interesting to read Read Full Review Chemistry International That fossilized chart on every classroom wall isn t that The Periodic Table Isn t that what Mendel ev devised about a century ago No and No There are

many ways of organizing the chemical elements some of which are thought provoking and which reveal philosophical challenges Where does hydrogen belong Can an element occupy more than one location on the chart Which are the Group 3 elements Is aluminum in the wrong place Why is silver I like thallium I Why is vanadium like molybdenum Why does gold form an auride ion like a halide ion Does an atom know if it is a non metal or metal Which elements are the metalloids Which are the triels So many questions In this stimulating and innovative book the Reader will be taken on a voyage from the past to the present to the future of the Periodic Table This book is unique This book is readable This book is thought provoking It is a multi dimensional examination of patterns and trends among the chemical elements Every reader will discover something about the chemical elements which will provoke thought and a new appreciation as to how the elements relate together

The Periodic Table Eric R. Scerri, 2006-10-12 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 D bereiner 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 *The Periodic Table of the Elements* Richard J.

Puddephatt, Patrick Kevin Monaghan, 1994 **The Periodic Table** Tom Jackson, 2020-02-04 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 **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 **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

Mastering the Periodic Table Linda Trombley,1988 [Periodic Table & Periodic Properties](#) M. Satake,2010 The book is primarily meant for undergraduate students of chemistry General reader who is interested in chemistry of elements and their behaviour will find it equally interesting and easy to understand [The Periodic Table](#) Mary Griffin,2018-12-15 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 [Understanding the Periodic Table](#) Jane P. Gardner,2018 Introduces the

periodic table of the elements **The Periodic Table: A Very Short Introduction** Eric R. Scerri,2019-07-25 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 *The Periodic Table II* 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 second volume provides chemists with an overview of the important role played by the Periodic Table in advancing our knowledge of solid state and bioinorganic chemistry It also illustrates how it has been used to fine tune the properties of compounds which have found commercial applications in catalysis electronics ceramics and in medicinal chemistry *The Periodic Table of Elements - Post-Transition Metals, Metalloids and Nonmetals* | *Children's Chemistry Book* Baby Professor, 2017-03-15 Why is it important for a child to study the periodic table of elements now Can t he she just wait until college to do that Early learning is best because a child s developing mind absorbs information at a faster rate than that of an adult Also the development of a healthy study habit begins during your child s elementary years So encourage reading and learning today [How to Read the Periodic Table of Elements | Chemistry for Beginners Grade 5 | Children's Science & Nature Books](#) Baby

Professor,2021-11-01 At the end of this book your child should be able to read and understand some of the periodic table He she should gain the basic understanding of how elements can be identified in symbols and that the table can be read from left to right Moreover your child will also learn what atomic numbers mean and how the table is divided between elements Start reading today

The Secret Life of the Periodic Table Dr Ben Still,Hamlyn,2025-07-17 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 the greatest pattern seeking accomplishments of humankind Contents include Atomic physics The quantum atom Trends and patterns Alkaline earth metals Metalloids Future elements

[The Basics of the Periodic Table](#) Leon Gray,2013-12-15 Provides basic information on the periodic table Includes biographical information on Dmitri Mendeleev color photographs and diagrams sidebars a glossary and further reading sources

The Periodic Table Becky Ham,2009 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

Periodic Table Cindy Blobaum,2005 What do chocolate chip cookies chemistry and logic have in common They are the basis for a unit that lets students become actively engaged in discovering the arrangement of the periodic table This learning activity takes the periodic table out of the static presentation usually associated with textbooks and chemistry courses and interjects an element of discovery The two activities in this unit provide students with information that they have to arrange in organized charts In the process of creating the arrangements students will be involved in problem solving and will gain an appreciation for the scientific process of exploration and verification This dynamic unit meets national science standards in seven teaching and content areas Bring the periodic table to life with this hands on minds on unit Book jacket

The Periodic Table Brian J. Knapp,1998-01-01

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