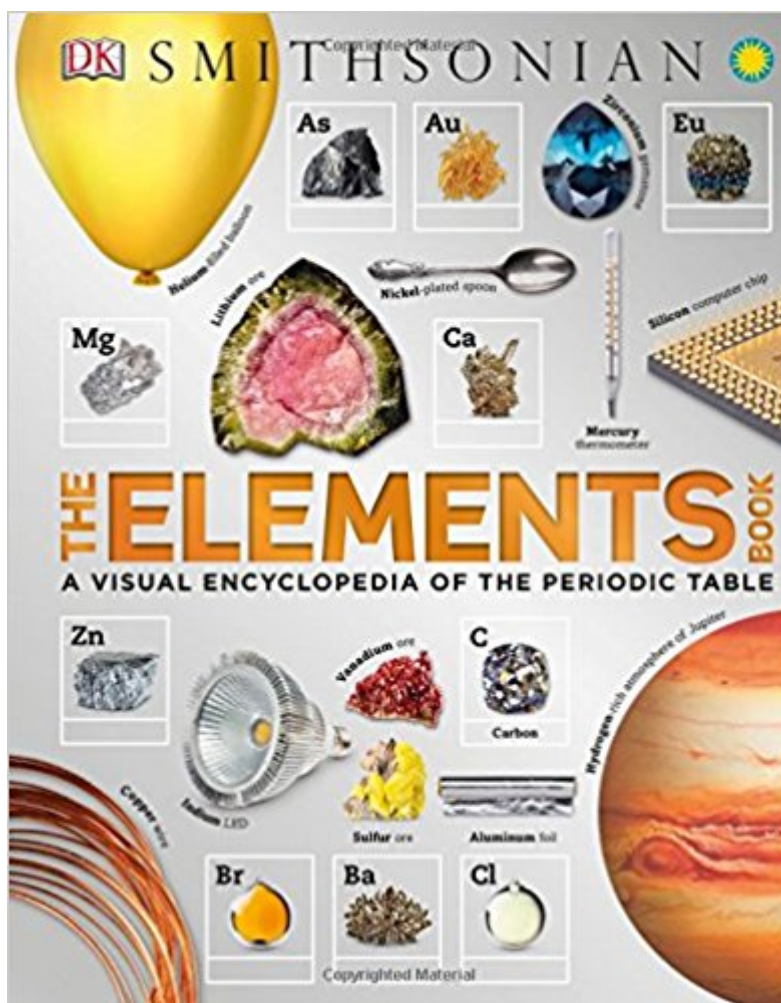


The book was found

The Elements Book: A Visual Encyclopedia Of The Periodic Table



Synopsis

Kids can go on a visual tour of the 118 chemical elements of the periodic table, from argon to zinc, in this one awesome volume packed with incredible images and fascinating facts. Cataloged by type, each element's properties and atomic structure is explained. More than 1,000 full-color photographs showcase the natural forms of each element, as well as a wide range of unexpected everyday objects in which it is found, to make them relevant to a child's world. How does a motorcycle utilize nitrogen? Which element can absorb harmful chemicals in water? Which famous landmark is made of copper? From hydrogen to sodium to nickel, kids will learn fun facts and be amazed. Supporting STEM education initiatives and designed in DK's signature visual style, The Elements Book brings the periodic table to life.

Book Information

Lexile Measure: 1030 (What's this?)

Hardcover: 208 pages

Publisher: DK Children (April 4, 2017)

Language: English

ISBN-10: 1465456600

ISBN-13: 978-1465456601

Product Dimensions: 8.8 x 0.8 x 11.1 inches

Shipping Weight: 2.7 pounds (View shipping rates and policies)

Average Customer Review: 4.8 out of 5 stars 31 customer reviews

Best Sellers Rank: #12,781 in Books (See Top 100 in Books) #5 in Books > Children's Books > Education & Reference > Science Studies > Nature > Rocks & Minerals #5 in Books > Children's Books > Education & Reference > Science Studies > Chemistry #235 in Books > Children's Books > Science, Nature & How It Works

Age Range: 9 - 12 years

Grade Level: 4 - 7

Customer Reviews

The sunken region between Ethiopia and Eritrea in East Africa is a wild volcanic area, packed with erupting craters, arid deserts, boiling mud, and pools with unusual colors caused by the presence of sulfur and many mineral salts. [View larger](#)

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Glenn T. Seaborg and his fellow US

researcher Edwin McMillan were awarded the Nobel Prize for Chemistry in 1951 for their work in creating neptunium. This was the first element to be isolated that was heavier than uranium—the heaviest natural element. Although aluminum is the most common metal in Earth's rocks, scientists did not discover it until the early 1800s. Even then, it took a further 80 years for scientists to work out how to use the ore bauxite to extract large amounts of pure aluminum. Mendelevium is named after the Russian chemist Dmitri Mendeleev, who invented the periodic table. Mendelevium is produced in very small amounts by firing parts of helium atoms at einsteinium atoms in a particle accelerator (a machine in which atoms are smashed together).

Reactions in the Real World Chemical reactions happen all around us. There are reactions when we cook, take medication, or breathe. [View larger](#)

[View larger](#) [View larger](#) [View larger](#) This group is a collection of reactive metals that were discovered as compounds inside common minerals in Earth's crust. Most of these minerals—known in the past as "earths"—are alkaline (alkali-producing), and this is how the group got its name. One of the most reactive groups in the periodic table, this set includes nonmetals. The name "halogen" means "salt former," which refers to the way elements in this group react with metals to form salts, such as sodium chloride, widely known as common salt. The group to the far right of the periodic table belongs to the noble gases. These elements are described as "noble" because they do not react with other "common" elements, such as oxygen (O). Their atoms never form bonds in nature, not even with atoms of their own kinds, and so they are always gases at room temperature.

In the classic DK manner, this book takes a subject that could be unbelievably tedious and makes it fun with the spectacular use of images. And don't believe the "age range" - this book is good for all ages. Each of the 118 recognized elements is covered in from 1/2 to 2 pages, with illustrations of the forms it exists in and then plentiful images of the uses each element has been used for. There are many elements, and not just the newer ones, that are largely unknown to the average person, and many are used in ways that we do not realize. One thing that might bother people is that the elements are not listed alphabetically or by atomic number; instead they are arranged in groups as they appear in the periodic table. But if you need to look up a particular element, you have both the table of contents and a useful index at your disposal. I think that every well-informed household

should have a book about the elements, and I think that for the layman, this book is the best available for that purpose!

My 3rd grader became hooked on the elements from going through his principles college textbooks. This one is fantastic for him. It gives real world examples with pictures for their uses without "dumbing it down" too much. His favorite birthday gift this year.

Great book for 5th Grader!

So much information! Great for kids

My 9 year old loves the book and has learned a lot about different elements.

As an educator, our family has an affinity for educational books. We are always looking for great books to add to our resource collection. When I saw this book, I knew we had hit upon something that definitely needed to be in our resource collection. Even during power failures, we have lots to look at and learn from.

WHAT IS THIS BOOK LIKE? This book is a feast for visual learners. There is enough information to make students learn about elements, but not so much that it is overwhelming like higher learning books are. The book is hard cover and is loaded with photos. There is an excellent table of contents which maps out the divisions of the different elements in the book. This allows you to look up different categories of elements and there are even photos in the table of contents which makes it easy to get around. The photos of the elements are interesting, colorful and stick in the memory very well. There are some basics outlined about the periodic table and elements and then each section has properties listed at the bottom of the title page. There is heavy use of icons to make the learning process very easy, especially for visual learners. The elements themselves have a page or two dedicated to it with a lot of photos and interesting facts about that element that make learning very exciting and easily retained. Every so often there is a spread about different things that relate to an element that is being talked about. Let's take sodium. There are different facts about sodium, such as soap, indigo dye, de-icing, fireworks, baking soda, gas lamps, and mummies. Then on the next page, there is a full spread with a huge photo of salt flats in Peru which ties in to the previous lesson about sodium.

HOW WE ALL LIKED THIS BOOK This book is a big hit in my house. Even those who are out of school pick it up and read through it. I have noticed that it ends up in everyone's room at one time or another and is really well liked by young and old. I

have to say that I also enjoy reading this book. It is easy to pick it up and put it down quickly if necessary, and still get something out of it. I have found my husband looking through it and reading it too, and he rarely gets the chance to read books. He will take time with this one though. The photos and layout is definitely a very good book for all learners, but is especially effective for visual learners. THE BOTTOM LINE Great for all ages, this book gives an excellent intro to the periodic table in a way that will be remembered. Lots of photos and excellent layout make it good for learning and retaining different facts and examples of elements from the periodic table. This book is an excellent reference book to have on hand in the house. It makes a great coffee table book for those who like photos and a great conversation starter too. FIVE STARS- If I could give this 10 I would.

This is a spectacular, glossy, large picture book of Elements, that just begs you to pick it up and turn the pages. You'll end up absorbing great information without thinking about learning or "trying" to learn, because reading the book is like perusing a beautiful magazine or coffee table book. My 11 and 13 yo kids will randomly flip through this book and read it, spouting off facts to me: "mom, did you know that Cesium is so unstable that it will explode if it even touches air or water?"-- Thus, as a plus, I'm learning about Elements even when I'm not actually looking at the book. The Elements are presented in color coded categories, corresponding to the various groupings of the Elements in the periodic table, such as the Lanthanides, Boron Group, Carbon Group, Noble Gases, etc... The Group colors can be seen on the edges of the book's pages, making the categories of Elements easy to flip through and identify. Each Element is presented with two features: Forms (how you may encounter the Element) and its Uses. There is a sectional box associated with and presented with each Element, which describes its atomic structure, numbers of electrons, protons and neutrons, the State (solid, liquid or gas) in which the Element is found at 28 degrees F (20 degrees C), and the year of its Discovery. There are also additional facts pages interspersed with the Elements, describing the characteristics of each Group, as well as scenes of geological features comprised of specific elements (Fly Geyser in the Black Rock Desert of Nevada is made of calcium carbonate rock) or other fascinating pictures and information (jet turbines are made of aluminum due aluminum's lightness and strength at high temperatures). This is the most beautiful and compelling book I've seen related to the periodic table, and it is a far cry from the dry lists and charts I've mainly seen associated with this subject in my youth. This is a great reference book to have in your home or your school, and anyone perusing this book will end up with a much better appreciation for the elemental components of our amazing universe.

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