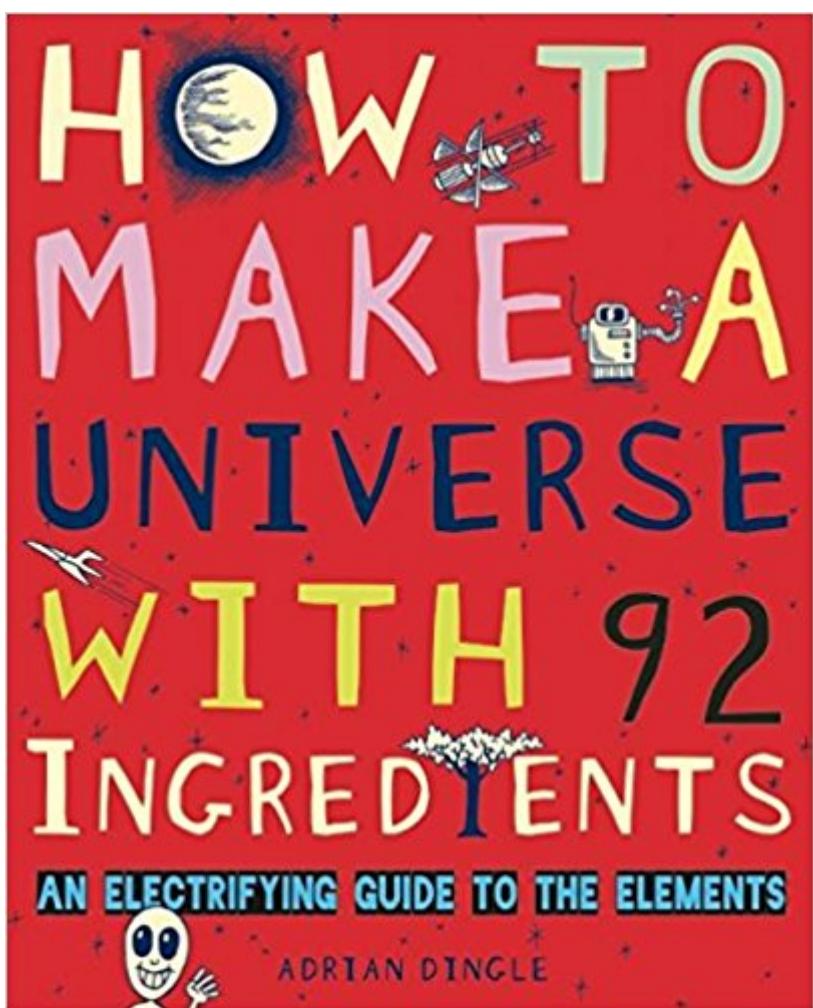


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# How To Make A Universe With 92 Ingredients: An Electrifying Guide To The Elements



## Synopsis

What do cars, stars, skyscrapers, and ice cream all have in common? They're all made from the same 92 ingredients...and so are we. And so is everything in the entire universe! *How to Make a Universe with 92 Ingredients* presents a unique and imaginative way for young readers to connect chemistry and science with their daily lives. By using dozens of familiar objects (trees, cell phones, the Sun), author Adrian Dingle has built a platform from which to teach kids the unfamiliar • that trees, cell phones, and the Sun are all made of a handful of chemical elements found on the periodic table. Full of easy experiments and "Did You Know?" information that's perfect for sharing with friends, *How to Make a Universe with 92 Ingredients* takes on the impossible and triumphs • it makes chemistry FUN!

## Book Information

Lexile Measure: 1010L (What's this?)

Hardcover: 96 pages

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Average Customer Review: 5.0 out of 5 stars 4 customer reviews

Best Sellers Rank: #366,706 in Books (See Top 100 in Books) #69 in Books > Children's Books > Education & Reference > Science Studies > Chemistry #5115 in Books > Children's Books > Science, Nature & How It Works

Age Range: 10 - 14 years

Grade Level: 4 - 9

## Customer Reviews

Gr 5-8 • In the text's opening chapters, readers will gain the background needed to understand the building blocks of the universe: atoms, subatomic particles, elements, and compounds. On welcoming, browsable pages, the book bounces from topics as far ranging as stars to soap. Kids can read the whole book, or a few pages at a time, and be plenty amazed. The boisterous illustrations are informative and have a playful and functional layout. Facts are sometimes broken into boxes such as "Really Cool Science Bits" and "Brain

Box.Ã¢â€• A few science projects (some serious and others not so) and some jokey warnings,Ã¢â€“If you're going to build a nuclear reactor, get some ADULT supervision,Ã¢â€• are included. Overall, this is a title sure to find an audience, one that will gain a newfound respect for the elements.Ã¢â€œHeather Acerro, Rochester Public Library, MNÃÂ  (c) Copyright 2013. Library Journals LLC, a wholly owned subsidiary of Media Source, Inc. No redistribution permitted.

"This book is about elements. There aren't many of them, but they make up everything you see. They make up the world. In fact, they make up the whole universe. Oh . . . and they make up YOU, too!"&#151; from the bookWinner, American Institute of Physics Science Communication Award, Writing for Children category (2014)"The author's evident enthusiasm provides plenty of revs..."Kirkus, July 17, 2013"...this is a title sure to find an audience, one that will gain a newfound respect for the elements."School Library Journal, September 1, 2013"An entertaining look at the chemical composition and properties of such items as coins, fireworks, skyscrapers, airplanes, comets, and poison."School Library Journal

What a great way to teach kids (and adults) about chemistry! This book includes narrative, lots of vivid illustrations, and experiments to demonstrate how all things are made from just 92 chemical elements. Each two-page spread has a clever title, like Ã¢â€œIÃ¢â€œfÃ¢â€œm Gonna Make You A StarÃ¢â€• and Ã¢â€œDish the Dirt on Soap.Ã¢â€• On the latter page, you learn what soap is made of, what scum means (a way to talk about hard water), and how to make elephant toothpaste! YouÃ¢â€œll also find out about why the fizz in soda is worse for your teeth than sugar, how fireworks are made in different colors, how tall buildings stand up, and why salt helps make ice cream. (And yes, one of the learning experiments is a recipe for ice cream!) At the end of the book, there is a glossary (Ã¢â€œCool WordsÃ¢â€•) and a list of resources, including websites, for further study. It also includes an awesome periodic table poster on the inside of the book jacket. Evaluation: I canÃ¢â€œt recommend this one highly enough. ItÃ¢â€œs guaranteed to keep children entertained and fascinated.

Good

grandson loves it

This book is intended for kids aged 10-12 or so, and need not be read in order. We get a two page spread on the periodic table, a spread on rocks, others on batteries, atomic bombs, magnets, and many other topics. Some include simple experiments (how to make an electromagnet, how to make a rubber-band racer, et al). No math or formulae except for converting Celsius to Fahrenheit. This book is about concepts and fun trivia. The pages are cluttered with callouts and graphics. This book comes out of the UK, I believe, though the North American edition has been pretty well regionalized.

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