
Disappearing Spoon Sam Kean

Antimony, Gold, and Jupiter's Wolf

Mathematics

Lonely Hearts of the Cosmos

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The Greatest Russian Stories of Crime and Suspense

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Liquid
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The Icepick Surgeon
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Stuff Matters
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We Need to Talk about Kelvin
The Disappearing Spoon
Rare Earth Frontiers

*Disappearing
Spoon Sam
Kean*

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VALENTINE SIMONE

*Antimony, Gold, and
Jupiter's Wolf* Scholastic
Inc.

The bestselling author of *Deep Economy* shows that we're living on a fundamentally altered planet — and opens our eyes to the kind of change we'll need in order to make our civilization endure. Twenty years

ago, with *The End of Nature*, Bill McKibben offered one of the earliest warnings about global warming. Those warnings went mostly unheeded; now, he insists, we need to acknowledge that we've waited too long, and that massive change is not only unavoidable but already under way. Our old familiar globe is suddenly melting, drying, acidifying, flooding, and burning in ways that no

human has ever seen. We've created, in very short order, a new planet, still recognizable but fundamentally different. We may as well call it Eearth. That new planet is filled with new binds and traps. A changing world costs large sums to defend — think of the money that went to repair New Orleans, or the trillions of dollars it will take to transform our energy systems. But the

endless economic growth that could underwrite such largesse depends on the stable planet we've managed to damage and degrade. We can't rely on old habits any longer. Our hope depends, McKibben argues, on scaling back — on building the kind of societies and economies that can hunker down, concentrate on essentials, and create the type of community (in the neighborhood, but also on the Internet) that will allow us to weather trouble on an unprecedented scale.

Change — fundamental change — is our best hope on a planet suddenly and violently out of balance.

Mathematics Penguin UK The Elements has become an international sensation, with over one million copies in-print worldwide. The highly-anticipated paperback edition of The Elements is finally available. An eye-opening, original collection of gorgeous, never-before-seen photographic representations of the 118 elements in the periodic

table. The elements are what we, and everything around us, are made of. But how many elements has anyone actually seen in pure, uncombined form? The Elements provides this rare opportunity. Based on seven years of research and photography, the pictures in this book make up the most complete, and visually arresting, representation available to the naked eye of every atom in the universe. Organized in order of appearance on the periodic table, each

element is represented by a spread that includes a stunning, full-page, full-color photograph that most closely represents it in its purest form. For example, at -183°C , oxygen turns from a colorless gas to a beautiful pale blue liquid. Also included are fascinating facts, figures, and stories of the elements as well as data on the properties of each, including atomic weight, density, melting and boiling point, valence, electronegativity, and the year and location in which

it was discovered. Several additional photographs show each element in slightly altered forms or as used in various practical ways. The element's position on the periodic table is pinpointed on a mini rendering of the table and an illustrated scale of the element's boiling and/or melting points appears on each page along with a density scale that runs along the bottom. Packed with interesting information, this combination of solid science and stunning

artistic photographs is the perfect gift book for every sentient creature in the universe. Includes a tear-out poster of Theodore Gray's iconic Photographic Periodic Table!

Lonely Hearts of the Cosmos Columbia University Press

Explores intriguing tales about every element of the periodic table, sharing their parts in human history, finance, mythology, war, evil, love, the arts, and the lives of the colorful scientists who discovered them.

No More Dead Dogs

Sourcebooks, Inc.
How to Use This Book This book is to be used alongside the bestselling book, *The Disappearing Spoon* by Sam Kean for anyone who wants to learn about the periodic table in an engaging and unique way. For students: The study questions are in order and follow Sam Kean's narrative. Answer the questions as you read the book. The answers are in the back section. For teachers: This is an easy and interesting resource to help your students learn about the periodic

table. Never has it been put in a way that transforms a normally dry subject into a page-turner. This is a step-by-step guide to help students learn about the elements. Use your own unique teaching style to supplement the *Pembroke Notes* with engaging activities and experiments. With the new Common Core standards and a push to increased rigor, I have added a *Writing Workshop* section at the end of my book to help you with writing assignments. For

homeschools: Your high school student will love the easy guide to help him/her in her reading of *The Disappearing Spoon*. Parents, be prepared for active discussions with your teenager while you read along with him/her. A *Writing Workshop* is supplied at the end of the book as a guide. Have fun. When not teaching or working on district curriculum in Alaska, Peggy and her husband, Bill, armed with fishing poles, make their home in Pittsburg, Missouri. [Full Cicada Moon](#) Little,

Brown Books for Young Readers
Inside Out and Back Again meets One Crazy Summer and Brown Girl Dreaming in this novel-in-verse about fitting in and standing up for what's right. It's 1969, and the Apollo 11 mission is getting ready to go to the moon. But for half-black, half-Japanese Mimi, moving to a predominantly white Vermont town is enough to make her feel alien. Suddenly, Mimi's appearance is all anyone notices. She struggles to

fit in with her classmates, even as she fights for her right to stand out by entering science competitions and joining Shop Class instead of Home Ec. And even though teachers and neighbors balk at her mixed-race family and her refusals to conform, Mimi's dreams of becoming an astronaut never fade—no matter how many times she's told no. This historical middle-grade novel is told in poems from Mimi's perspective over the course of one year in her

new town, and shows readers that positive change can start with just one person speaking up. Winner of the 2015-2016 APALA Literature Award in the Children's category! * "Readers will be moved by the empathetic lyricism of Mimi's maturing voice."--Kirkus Reviews, starred review * "This novel stands out with it's thoughtful portrayal of race and its embrace of girls in science and technical fields. The verse, though spare, is powerful and evocative, perfectly

capturing Mimi's emotional journey."--
School Library Journal,
starred review

**Storm in a Teacup: The
Physics of Everyday**

Life Little, Brown
Meet Spoon. He's always
been a happy little
utensil. But lately, he
feels like life as a spoon
just isn't cutting it. He
thinks Fork, Knife, and
The Chopsticks all have it
so much better than him.
But do they? And what do
they think about Spoon? A
book for all ages, Spoon
serves as a gentle
reminder to celebrate

what makes us each
special.

Periodic Tales Black Dog
& Leventhal

A young readers edition of
the New York Times
bestseller *The
Disappearing Spoon*,
chronicling the
extraordinary stories
behind one of the greatest
scientific tools in
existence: the periodic
table. Why did Gandhi
hate iodine (I, 53)? How
did radium (Ra, 88) nearly
ruin Marie Curie's
reputation? And why did
tellurium (Te, 52) lead to
the most bizarre gold rush

in history? The periodic
table is a crowning
scientific achievement,
but it's also a treasure
trove of adventure, greed,
betrayal, and obsession.
The fascinating tales in
The Disappearing Spoon
follow elements on the
table as they play out
their parts in human
history, finance,
mythology, conflict, the
arts, medicine, and the
lives of the (frequently)
mad scientists who
discovered them. Adapted
for a middle grade
audience, the young
readers edition of *The*

Disappearing Spoon offers the material in a simple, easy-to-follow format, with approximately 20 line drawings and sidebars throughout. Students, teachers, and burgeoning science buffs will love learning about the history behind the chemistry.

Napoleon's Buttons

Houghton Mifflin Harcourt
Napoleon's Buttons is the fascinating account of seventeen groups of molecules that have greatly influenced the course of history. These molecules provided the

impetus for early exploration, and made possible the voyages of discovery that ensued. The molecules resulted in grand feats of engineering and spurred advances in medicine and law; they determined what we now eat, drink, and wear. A change as small as the position of an atom can lead to enormous alterations in the properties of a substance—which, in turn, can result in great historical shifts. With lively prose and an eye for colorful and unusual details, Le

Couteur and Bureson offer a novel way to understand the shaping of civilization and the workings of our contemporary world. [The Disappearing Spoon](#)
Simon and Schuster
Look around you. The reflection of your face in a window tells you that the universe is orchestrated by chance. The iron in a spot of blood on your finger tells you that somewhere out in space there is furnace at a temperature of 4.5 billion degrees. Your TV tells you that the universe had a

beginning. In fact, your very existence tells you that this may not be the only universe but merely one among an infinity of others, stacked like the pages of a never-ending book. Marcus Chown, author of *Quantum Theory Cannot Hurt You*, *What a Wonderful World* and *The Solar System*, takes familiar features of the world we know and shows how they can be used to explain profound truths about the ultimate nature of reality. His new book will change the way you see the universe: with

Chown as your guide, cutting-edge science is made clear and meaningful by a falling leaf, or a rose, or a starry night sky... *We Need To Talk About Kelvin: What Everyday Things Tell Us About The Universe* is a hugely accessible exploration of quantum theory, relativity, cosmology, biology and chemistry. Taking our everyday experiences, Marcus Chown quickly and painlessly explains the ultimate truths of reality. *The Drug Hunters*
Random House

Explore the unbelievable true story of America's glowing girls and their fight for justice in the young readers edition of the New York Times and USA Today bestseller *The Radium Girls*. This enthralling new edition includes all-new material, including a glossary, timeline, and dozens of bonus photos. Amid the excitement of the early twentieth century, hundreds of young women spend their days hard at work painting watch dials with glow-in-the-dark radium paint.

The painters consider themselves lucky—until they start suffering from a mysterious illness. As the corporations try to cover up a shocking secret, these shining girls suddenly find themselves at the center of a deadly scandal. The Radium Girls: Young Readers Edition tells the unbelievable true story of these incredible women, whose determination to fight back saved countless lives. This new edition of the national bestseller is perfect for: Educators looking for history books

for kids ages 9 to 12, nonfiction books for kids, biographies for kids, and real stories around the industrial revolution, chemistry, and science Parents, educators, and librarians looking for stories about strong women, inspiring books for girls, childrens books about women in history, and famous women books for girls Young readers who want to read one of the most inspiring and shocking narratives of the early 20th century Eaarth OUP USA Best-selling author

Gordon Korman's middle-grade favorite, now with a fresh look! Wallace Wallace won't lie, even if it means detention. And after he handed in a scorching book report of the classic novel, Old Shep, My Pal, detention is just what he's been handed. He is sure he's done nothing wrong: he hated every minute of that book, especially when the dog dies in the end! Why do dogs always die at the end? Wallace refuses to do a rewrite of his report, so his English teacher, who happens to

be directing the school play of *Old Shep, My Pal*, forces him go to the rehearsals to teach him a lesson on why the story is the way it is. Surrounded by theater kids who are apprehensive of him, Wallace sets out to prove himself. But not by changing his mind. Instead, he changes the play into a rock-and-roll rendition, complete with Rollerblades and a moped!

The Bastard Brigade
Oxford University Press,
USA
A world-leading materials

scientist presents an engrossing collection of stories that explain the science and history of materials, from the plastic in our appliances to the elastic in our underpants, revealing the miracles of engineering that seep into our everyday lives.

25,000 first printing.
Adventures in Memory
Little Brown & Company
From a New York Times bestselling author comes the gripping, untold history of science's darkest secrets, "a fascinating book [that] deserves a wide

audience" (Publishers Weekly, starred review). Science is a force for good in the world—at least usually. But sometimes, when obsession gets the better of scientists, they twist a noble pursuit into something sinister. Under this spell, knowledge isn't everything, it's the only thing—no matter the cost. Bestselling author Sam Kean tells the true story of what happens when unfettered ambition pushes otherwise rational men and women to cross the line in the name of science, trampling ethical

boundaries and often committing crimes in the process. The Icepick Surgeon masterfully guides the reader across two thousand years of history, beginning with Cleopatra's dark deeds in ancient Egypt. The book reveals the origins of much of modern science in the transatlantic slave trade of the 1700s, as well as Thomas Edison's mercenary support of the electric chair and the warped logic of the spies who infiltrated the Manhattan Project. But the sins of science aren't

all safely buried in the past. Many of them, Kean reminds us, still affect us today. We can draw direct lines from the medical abuses of Tuskegee and Nazi Germany to current vaccine hesitancy, and connect icepick lobotomies from the 1950s to the contemporary failings of mental-health care. Kean even takes us into the future, when advanced computers and genetic engineering could unleash whole new ways to do one another wrong. Unflinching, and

exhilarating to the last page, *The Icepick Surgeon* fuses the drama of scientific discovery with the illicit thrill of a true-crime tale. With his trademark wit and precision, Kean shows that, while science has done more good than harm in the world, rogue scientists do exist, and when we sacrifice morals for progress, we often end up with neither.

Spoon Little, Brown Books for Young Readers
The intriguing, inspiring history of one small, impoverished area in the

Dominican Republic that has produced a staggering number of Major League Baseball talent, from an award-winning, bestselling author. In the town of San Pedro in the Dominican Republic, baseball is not just a way of life. It's the way of life. By the year 2008, seventy-nine boys and men from San Pedro have gone on to play in the Major Leagues-that means one in six Dominican Republicans who have played in the Majors have come from one tiny, impoverished

region. Manny Alexander, Sammy Sosa, Tony Fernandez, and legions of other San Pedro players who came up in the sugar mill teams flocked to the United States, looking for opportunity, wealth, and a better life. Because of the sugar industry, and the influxes of migrant workers from across the Caribbean to work in the cane fields and factories, San Pedro is one of the most ethnically diverse areas of the Dominican Republic. A multitude of languages are spoken there, and a variety of

skin colors populate the community; but the one constant is sugar and baseball. The history of players from San Pedro is also a chronicle of racism in baseball, changing social mores in sports and in the Dominican Republic, and the personal stories of the many men who sought freedom from poverty through playing ball. The story of baseball in San Pedro is also that of the Caribbean in the twentieth and twenty-first centuries and on a broader level opens a

window into our country's history. As with Kurlansky's *Cod and Salt*, this small story, rich with anecdote and detail, becomes much larger than ever imagined. Kurlansky reveals two countries' love affair with a sport and the remarkable journey of San Pedro and its baseball players. In his distinctive style, he follows common threads and discovers wider meanings about place, identity, and, above all, baseball. Watch a [Video](#)
[Crow Mountain Penguin](#)

In his highly anticipated sequel to *The Elements*, Theodore Gray demonstrates how the elements of the periodic table combine to form the molecules that make up our world. Everything physical is made up of the elements and the infinite variety of molecules they form when they combine with each other. In *Molecules*, Theodore Gray takes the next step in the grand story that began with the periodic table in his best-selling book, *The Elements: A Visual Exploration of Every*

Known Atom in the Universe. Here, he explores through fascinating stories and trademark stunning photography the most interesting, essential, useful, and beautiful of the millions of chemical structures that make up every material in the world. Gray begins with an explanation of how atoms bond to form molecules and compounds, as well as the difference between organic and inorganic chemistry. He then goes on to explore the vast

array of materials molecules can create, including: soaps and solvents; goops and oils; rocks and ores; ropes and fibers; painkillers and dangerous drugs; sweeteners; perfumes and stink bombs; colors and pigments; and controversial compounds including asbestos, CFCs, and thimerosal. Big, gorgeous photographs, as well as diagrams of the compounds and their chemical bonds, rendered with never before seen beauty, fill the pages and capture molecules in their

various states. As he did in *The Elements*, Gray shows us molecules as we've never seen them before. It's the perfect book for his loyal fans who've been eager for more and for anyone fascinated with the mysteries of the material world. [African American Women Chemists](#) Little, Brown Mathematics: The New Golden Age offers a glimpse of the extraordinary vistas and bizarre universes opened up by contemporary mathematicians: Hilbert's

tenth problem and the four-color theorem, Gaussian integers, chaotic dynamics and the Mandelbrot set, infinite numbers, and strange number systems. Why a "new golden age"? According to Keith Devlin, we are currently witnessing an astronomical amount of mathematical research. Charting the most significant developments that have taken place in mathematics since 1960, Devlin expertly describes these advances for the interested layperson and

adroitly summarizes their significance as he leads the reader into the heart of the most interesting mathematical perplexities -- from the biggest known prime number to the Shimura-Taniyama conjecture for Fermat's Last Theorem. Revised and updated to take into account dramatic developments of the 1980s and 1990s, *Mathematics: The New Golden Age* includes, in addition to Fermat's Last Theorem, major new sections on knots and topology, and the

mathematics of the physical universe. Devlin portrays mathematics not as a collection of procedures for solving problems, but as a unified part of human culture, as part of mankind's eternal quest to understand ourselves and the world in which we live. Though a genuine science, mathematics has strong artistic elements as well; this creativity is in evidence here as Devlin shows what mathematicians do -- and reveals that it has little to do with numbers and

arithmetic. This book brilliantly captures the fascinating new age of mathematics.

The Greatest Russian Stories of Crime and Suspense Little, Brown

A guide to the elements discusses their discovery and properties and how they have shaped technology and civilization.

The Ingredients Sterling Publishing Company Incorporated
From New York Times bestselling author Sam Kean comes incredible stories of science, history,

language, and music, as told by our own DNA. In *The Disappearing Spoon*, bestselling author Sam Kean unlocked the mysteries of the periodic table. In *THE VIOLINIST'S THUMB*, he explores the wonders of the magical building block of life: DNA. There are genes to explain crazy cat ladies, why other people have no fingerprints, and why some people survive nuclear bombs. Genes illuminate everything from JFK's bronze skin (it wasn't a tan) to Einstein's genius. They prove that

Neanderthals and humans bred thousands of years more recently than any of us would feel comfortable thinking. They can even allow some people, because of the exceptional flexibility of their thumbs and fingers, to become truly singular violinists. Kean's vibrant storytelling once again makes science entertaining, explaining human history and whimsy while showing how DNA will influence our species' future. [The Disappearing Spoon](#)
Oxford University Press

The surprising, behind-the-scenes story of how our medicines are discovered, told by a veteran drug hunter. The search to find medicines is as old as disease, which is to say as old as the human race. Through serendipity— by chewing, brewing, and snorting—some Neolithic souls discovered opium, alcohol, snakeroot, juniper, frankincense, and other helpful substances. Ötzi the Iceman, the five-thousand-year-old hunter frozen in the Italian Alps, was found to have

whipworms in his intestines and Bronze-age medicine, a worm-killing birch fungus, knotted to his leggings. Nowadays, Big Pharma conglomerates spend billions of dollars on state-of-the-art laboratories staffed by PhDs to discover blockbuster drugs. Yet, despite our best efforts to engineer cures, luck, trial-and-error, risk, and ingenuity are still fundamental to medical discovery. The Drug Hunters is a colorful, fact-filled narrative history of the search for new

medicines from our Neolithic forebears to the professionals of today, and from quinine and aspirin to Viagra, Prozac, and Lipitor. The chapters offer a lively tour of how new drugs are actually found, the discovery strategies, the mistakes, and the rare successes. Dr. Donald R. Kirsch infuses the book with his own expertise and experiences from thirty-five years of drug hunting, whether searching for life-saving molecules in mudflats by Chesapeake Bay or as a chief science

officer and research group leader at major pharmaceutical companies.

Molecules Little, Brown Scientists have always kept secrets. But rarely in history have scientific secrets been as vital as they were during World War II. In the midst of planning the Manhattan Project, the U.S. Office of Strategic Services created a secret offshoot - the Alsos Mission - meant to gather intelligence on and sabotage if necessary, scientific research by the Axis powers. What

resulted was a plot worthy of the finest thriller, full of spies, sabotage, and murder. At its heart was the 'Lightning A' team, a group of intrepid soldiers, scientists, and spies - and even a famed baseball player - who were given almost free rein to get themselves embedded

within the German scientific community to stop the most terrifying threat of the war: Hitler acquiring an atomic bomb of his very own. While the Manhattan Project and other feats of scientific genius continue to inspire us today, few people

know about the international intrigue and double-dealing that accompanied those breakthroughs. Bastard Brigade recounts this forgotten history, fusing a non-fiction spy thriller with some of the most incredible scientific ventures of all time.