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### SCIENCA

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#### MATHEMATICS, PHYSICS, CHEMISTRY, BIOLOGY, AND ASTRONOMY FOR ALL

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*Bloomsbury Publishing USA* Collects six short illustrated volumes covering topics in mathematics, physics, chemistry, biology, evolution, and astronomy.

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### SCIENCA

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#### MATHEMATICS, PHYSICS, CHEMISTRY, BIOLOGY AND ASTRONOMY FOR ALL

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"Scienca" gathers together six individual volumes spanning the realms of mathematics, physics, chemistry, biology, evolution, and astronomy. Lavishly illustrated with engravings, woodcuts, and original drawings and diagrams, it inspires readers of all ages to take an interest in the interconnected knowledge of the modern sciences.

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### ESSENTIAL ELEMENTS

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#### ATOMS, QUARKS, AND THE PERIODIC TABLE

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*Bloomsbury Publishing USA* A short, illustrated introduction to the tiny building blocks of our universeincluding atoms, quarks, and the periodic table. Illustrations. 10,000print.

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### USEFUL MATHEMATICAL AND PHYSICAL FORMULAE

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*Bloomsbury Publishing USA* A compact volume of mathematical and physical formulae presented in a concise manner for general use. Collected in this book are commonly used formulae for studies such as quadratics, calculus and trigonometry; in addition are simplified explanations of Newton's Laws of Gravity and Snell's Laws of Refraction. A glossary, a table of mathematical and physical constants, and a listing of Imperial and Metric conversions is also included.

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### MEGALITH

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*eBook Partnership* How do you predict eclipses at Stonehenge? Why do the Carnac alignments follow geological fault lines? Why is Avebury precisely one seventh of a circle down from the north pole? Why are so many stone circles egg-shaped or flattened? What is the meaning of the designs in ancient rock art? Why do you have to wait nineteen years to visit the remote site of Callanish? What were the ancients up to? This book details our oldest and grandest buildings, our first temples, our earliest visual art, messages which are still relevant today. With eight authors, and packed with detailed information and exquisite rare illustrations, Megalith is a timeless and valuable sourcebook for anyone interested in prehistory.

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### A DINGO ATE MY MATH BOOK: MATHEMATICS FROM DOWN UNDER

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*American Mathematical Soc.* A Dingo Ate My Math Book presents ingenious, unusual, and beautiful nuggets of mathematics with a distinctly Australian flavor. It focuses, for example, on Australians' love of sports and gambling, and on Melbourne's iconic, mathematically inspired architecture. Written in a playful and humorous style, the book offers mathematical entertainment as well as a glimpse of Australian culture for the mathematically curious of all ages. This collection of engaging stories was extracted from the Maths Masters column that ran from 2007 to 2014 in Australia's Age newspaper. The maths masters in question are Burkard Polster and Marty Ross, two (immigrant) Aussie mathematicians, who each week would write about math in the news, providing a new look at old favorites, mathematical history, quirks of school mathematics—whatever took their fancy. All articles were written for a very general audience, with the intention of being as inviting as possible and assuming a minimum of mathematical background.

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### THE SCIENCE OF EVERYTHING

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#### HOW THINGS WORK IN OUR WORLD

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*National Geographic Books* Providing colorful photography, instructive diagrams and everyday examples, this exciting resource reveals the science behind virtually everything and is divided into four sections - Mechanics, Natural Forces, Materials and Chemistry and Biology and Medicine.

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### Q.E.D.

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#### BEAUTY IN MATHEMATICAL PROOF

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*Bloomsbury Publishing USA* Q.E.D. presents some of the most famous mathematical proofs in a charming book that will appeal to nonmathematicians and math experts alike. Grasp in an instant why Pythagoras's theorem must be correct. Follow the ancient Chinese proof of the volume formula for the frustrating frustum, and Archimedes' method for finding the volume of a sphere. Discover the secrets of pi and why, contrary to popular belief, squaring the circle really is possible. Study the subtle art of mathematical domino tumbling, and find out how slicing cones helped save a city and put a man on the moon.

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### DESIGNA

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*eBook Partnership* Have you ever stared at patterned wallpaper and wondered how it was designed? Been captivated by some priceless Celtic art? Or boggled at a beautiful Islamic pattern? Have you ever stepped back and thought about the illusion of reality your senses

create for you? Or pondered the symmetries which inform your feelings of what seems right? Is there a Golden secret, revealed by nature herself, which is common to all of the traditional arts? Packed with information and exquisite illustrations by more than twelve expert authors, Designa is the ultimate sourcebook for visual artists and designers of every kind.

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## PUTTING TWO AND TWO TOGETHER

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### SELECTIONS FROM THE MATHOLOGER FILES

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*American Mathematical Society* **Putting Two and Two Together** is a humorous and quirky collection of unusual, ingenious, and beautiful morsels of mathematics. Authors Burkard Polster (YouTube's Mathologer) and Marty Ross delve into mathematical puzzles and phenomena in engaging stories featuring current events, sports, and history, many flavored with a distinctive bit of Australiana. Each chapter ends with “puzzles to ponder” that will spur further reflection. These stories were written for a general audience, and originally appeared in the Maths Masters column in The Age newspaper. The book offers mathematical entertainment for curious readers of all ages, and assumes a minimum of mathematical background. Polster and Ross are masters of the genre this book represents: a cornucopia of offerings, from across the mathematical spectrum. Their articles are entertaining, captivating, and informative, and will appeal to everyone from interested amateurs to old pros. On top of all that, the prose is clear, concise and a lot of fun—happily with a charmingly Aussie flavo(u)r. Crack the spine and enjoy! —Michael Berg, Loyola Marymount University, Los Angeles The American Mathematical Society must be congratulated on publishing a singularly amusing synthesis of cultural anthropology coupled with mathematical entertainment. —Tushar Das, University of Wisconsin-La Crosse Polster and Ross are as good as the original master, Martin Gardner! They are also as good as that other great popularizer of mathematics, Ian Stewart, who took up Gardner's mantle, and as good as Douglas Hofstadter, who also followed in Gardner's footsteps as popularizers of mathematics within regular columns in “Scientific American”, and elsewhere. I recommend this new book very highly! Like Poster and Ross's first collection of columns, it is one that you can happily read from cover to cover, or dip into at any random point, and find treasures. You will then often return, savouring, and often laughing, while also learning, and responding to thoughtful challenges! —John Gough, Deakin University, Geelong, Australia

### SACRED GEOMETRY

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*eBook Partnership* **Is there a secret visual language all around us? What's so special about the shape of the Great Pyramid? Why is there something so sexy about circles? How many ways can you tile the plane?** Lavishly illustrated by the author, this enchanting small introduction to one of the oldest and most widely-used ancient traditions on Earth will forever change the way you look at a triangle, arch, window, fabric repeat, ceramic pattern, graphic design, painting, spiral or flower. WOODEN BOOKS are small but packed with information. "e;Fascinating"e; FINANCIAL TIMES. "e;Beautiful"e; LONDON REVIEW OF BOOKS. "e;Rich and Artful"e; THE LANCET. "e;Genuinely mind-expanding"e; FORTEAN TIMES. "e;Excellent"e; NEW SCIENTIST. "e;Stunning"e; NEW YORK TIMES. Small books, big ideas.

### QUADRIVIUM

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*eBook Partnership* **The Quadrivium consists of the four Liberal Arts of Number, Geometry, Music, and Cosmology, studied from antiquity to the Renaissance as a way of glimpsing the nature of reality. They synthesize number, space, and time. Geometry is number in space, music is number in time, and the cosmos expresses number in space and time. Number, music, and geometry are metaphysical truths, good and beautiful everywhere at all times. Life across the universe investigates them. They foreshadow the physical sciences. This is the first volume to bring together the Quadrivium for many hundreds of years**

### QUADRIVIUM

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### NUMBER GEOMETRY MUSIC HEAVEN

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Composed of six previously published works.

### SYMMETRY

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*eBook Partnership* **Why on earth do cars have the same symmetry as dragonflies? Is there really a beautiful swirling pattern lurking in every dripping tap? What do insect eggs have in common with planets, and why? In this exquisite book, the smallest and most concise ever produced, designer David Wade introduces the main principles of symmetry, and shows how, despite opinions over exactly what it is, symmetry can be found in almost every corner of science, nature and human culture. WOODEN BOOKS are small but packed with information. "e;Fascinating"e; FINANCIAL TIMES. "e;Beautiful"e; LONDON REVIEW OF BOOKS. "e;Rich and Artful"e; THE LANCET. "e;Genuinely mind-expanding"e; FORTEAN TIMES. "e;Excellent"e; NEW SCIENTIST. "e;Stunning"e; NEW YORK TIMES. Small books, big ideas.**

### LATIN AS THE LANGUAGE OF SCIENCE AND LEARNING

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*Walter de Gruyter GmbH & Co KG* **This book investigates the role of the Latin language as a vehicle for science and learning from several angles. First, the question what was understood as ‘science’ through time and how it is named in different languages, especially the Classical ones, is approached. Criteria for what did pass as scientific are found that point to ‘science’ as a kind of Greek Denkstil based on pattern-finding and their unbiased checking. In a second part, a brief diachronic panorama introduces schools of thought and authors who wrote in Latin from antiquity to the present. Latin’s heydays in this function are clearly the time between the twelfth and eighteenth centuries. Some niches where it was used longer are examined and reasons sought why Latin finally lost this lead-role. A third part seeks to define the peculiar characteristics of scientific Latin using corpus linguistic approaches. As a result, several types of scientific writing can be identified. The question of how to transfer science from one linguistic medium to another is never far: Latin inherited this role from Greek and is in turn the ancestor of science done in the modern vernaculars. At the end of the study, the importance of Latin science for modern science in English becomes evident.**

### THE MIRACLE OF TREES

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*Bloomsbury Publishing USA* **A charming pocket guide to the most majestic of Earth's life forms.**

### TRIVIUM

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### DIVINE PROPORTION

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### PHI IN ART, NATURE, AND SCIENCE

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*Sterling Publishing Company Incorporated* **The number Phi, simply defined, is one plus the square root of five, all divided by two. But its myriad occurrences in art, nature, and science have been a source of speculation and wonder for thousands of years. Divine Proportion draws upon both religion and science to tell the story of Phi and to explore its manifestations in such diverse places as the structure of the inner ear, the spiral of a hurricane, the majesty of the Parthenon, and the elusive perfection of the Mona Lisa. A universal key to harmony, regeneration, and balance, Phi is at the heart of a tantalizing story begun on clay tablets in ancient Babylon, and which will continue to be written for centuries to come.**

### HARMONOGRAPH

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*eBook Partnership* **Why did Pythagoras pause outside a Blacksmith's workshop? Can the nature of Harmony really be understood visually? Why do harmonies leave gaps or 'commas' when added together? In this charming little book Anthony Ashton uses a Victorian device**

called a Harmonograph to tell the story of Harmony and the intervals in the scale. With useful appendices and exquisite line drawings this is a unique and original introduction to this timeless subject. WOODEN BOOKS are small but packed with information. "e;Fascinating"e; FINANCIAL TIMES. "e;Beautiful"e; LONDON REVIEW OF BOOKS. "e;Rich and Artful"e; THE LANCET. "e;Genuinely mind-expanding"e; FORTEAN TIMES. "e;Excellent"e; NEW SCIENTIST. "e;Stunning"e; NEW YORK TIMES. Small books, big ideas.

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#### LITTLE BOOK OF COINCIDENCE

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*eBook Partnership* Venus draws a beautiful pentagram around Earth every eight years. Jupiter's two largest moons draw a perfect four-fold flower. The Planets grandly play out the slow Music of the Spheres. Is there a secret structure hidden in the Solar System? Packed with great illustrations and serious research from many sources, this internationally bestselling little book by cosmologist John Martineau will instantly retune your cosmological circuits to the extraordinary and primary patterns behind Life, the Universe and Everything. WOODEN BOOKS are small but packed with information. "e;Fascinating"e; FINANCIAL TIMES. "e;Beautiful"e; LONDON REVIEW OF BOOKS. "e;Rich and Artful"e; THE LANCET. "e;Genuinely mind-expanding"e; FORTEAN TIMES. "e;Excellent"e; NEW SCIENTIST. "e;Stunning"e; NEW YORK TIMES. Small books, big ideas.

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#### RULER AND COMPASS

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#### PRACTICAL GEOMETRIC CONSTRUCTIONS

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*Bloomsbury Publishing USA* An introduction to geometry without measurements.

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#### ADVANCED CHEMISTRY

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*Oxford University Press* Carefully researched by the authors to bring the subject of chemistry up-to-date, this text provides complete coverage of the new A- and AS-level core specifications. The inclusion of objectives and questions make it suitable for self study.

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#### PUBLIC ADMINISTRATION

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#### THE INTERDISCIPLINARY STUDY OF GOVERNMENT

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*Oxford University Press* The book examines the history and development of public administration, the study of the internal structure and functioning of government and its interaction with society and its citizens. It surveys different approaches to the field and the methodological and epistemological issues surrounding an interdisciplinary, applied social science.

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#### FRACTALS

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#### ON THE EDGE OF CHAOS

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*Wooden Books Us* What are fractals? Why are they such fun? How do you make one? Why is a dripping tap not as random as it seems? What is chaos? Is the Mandelbrot Set really the most complex object in mathematics? In this beautifully illustrated book, fractal-hunter Oliver Linton takes us on a fascinating journey into the mathematics of fractals and chaos, diving into many kinds of self- similar structures to reveal some of the most recently discovered and intriguing patterns in science and nature. WOODEN BOOKS US EDITIONS. Small books, BIG ideas. Tiny but packed with information. "Stunning" NEW YORK TIMES. "Fascinating" FINANCIAL TIMES. "Beautiful" LONDON REVIEW OF BOOKS. "Rich and Artful" THE LANCET. "Genuinely mind-expanding" FORTEAN TIMES. "Excellent" NEW SCIENTIST.

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#### THE -ALCHEMIST'S KITCHEN

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#### EXTRAORDINARY POTIONS & CURIOUS NOTIONS

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*Bloomsbury Publishing USA* Initiates the reader into some of the key concepts and practices of this extraordinary field of study.

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#### THE GOLDEN RATIO

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#### THE DIVINE BEAUTY OF MATHEMATICS

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*Race Point Publishing* The Golden Ratio examines the presence of this divine number in art and architecture throughout history, as well as its ubiquity among plants, animals, and even the cosmos. This gorgeous book—with layflat dimensions that closely approximate the golden ratio—features clear, enlightening, and entertaining commentary alongside stunning full-color illustrations by Venezuelan artist and architect Rafael Araujo. From the pyramids of Giza, to quasicrystals, to the proportions of the human face, the golden ratio has an infinite capacity to generate shapes with exquisite properties. This book invites you to take a new look at this timeless topic, with a compilation of research and information worthy of a text book, accompanied by over 200 beautiful color illustrations that transform this into the ultimate coffee table book. Author Gary Meisner shares the results of his twenty-year investigation and collaboration with thousands of people across the globe in dozens of professions and walks of life. The evidence will close the gaps of understanding related to many claims of the golden ratio's appearances and applications, and present new findings to take our knowledge further yet. Whoever you are, and whatever you may know about this topic, you'll find something new, interesting, and informative in this book, and may find yourself challenged to see, apply, and share this unique number of mathematics and science in new ways.

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#### THE BIG PICTURE

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#### ON THE ORIGINS OF LIFE, MEANING, AND THE UNIVERSE ITSELF

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*Penguin* The instant New York Times bestseller about humanity's place in the universe—and how we understand it. “Vivid...impressive....Splendidly informative.”—The New York Times “Succeeds spectacularly.”—Science “A tour de force.”—Salon Already internationally acclaimed for his elegant, lucid writing on the most challenging notions in modern physics, Sean Carroll is emerging as one of the greatest humanist thinkers of his generation as he brings his extraordinary intellect to bear not only on Higgs bosons and extra dimensions but now also on our deepest personal questions: Where are we? Who are we? Are our emotions, our beliefs, and our hopes and dreams ultimately meaningless out there in the void? Do human purpose and meaning fit into a scientific worldview? In short chapters filled with intriguing historical anecdotes, personal asides, and rigorous exposition, readers learn the difference between how the world works at the quantum level, the cosmic level, and the human level—and then how each connects to the other. Carroll's presentation of the principles that have guided the scientific revolution from Darwin and Einstein to the origins of life, consciousness, and the universe is dazzlingly unique. Carroll shows how an avalanche of discoveries in the past few hundred years has changed our world and what really matters to us. Our lives are dwarfed like never before by the immensity of space and time, but they are redeemed by our capacity to comprehend it and give it meaning. The Big Picture is an unprecedented scientific worldview, a tour de force that will sit on shelves alongside the works of Stephen Hawking, Carl Sagan, Daniel Dennett, and E. O. Wilson for years to come.

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#### GOLDEN SECTION

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*eBook Partnership* What was the golden secret known to Leonardo da Vinci, Kepler, Plato and the ancient magicians? Can there really be a key to nature and life itself? In this small but compact volume internationally renowned divine proportion supersleuth Dr Olsen

unravels perhaps the greatest mystery of all time, a code that seems to underly life, the universe and everything, a pattern we instinctively recognise as beautiful, and which nature herself uses at every scale. Designed for artists and scientists alike, this is the smallest, densest and most beautiful book on the golden section ever produced. WOODEN BOOKS are small but packed with information. "e;Fascinating"e; FINANCIAL TIMES. "e;Beautiful"e; LONDON REVIEW OF BOOKS. "e;Rich and Artful"e; THE LANCET. "e;Genuinely mind-expanding"e; FORTEAN TIMES. "e;Excellent"e; NEW SCIENTIST. "e;Stunning"e; NEW YORK TIMES. Small books, big ideas.

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### THE FIRST ASTRONOMERS

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#### HOW INDIGENOUS ELDERS READ THE STARS

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*Allen & Unwin* **The First Astronomers** is the first book to reveal the rich knowledge of the stars and the planets held by First Peoples around the world. Our eyes have been drawn away from the skies to our screens. We no longer look to the stars to forecast the weather, predict the seasons or plant our gardens. Most of us cannot even see the Milky Way. But First Nations Elders around the world still maintain this knowledge, and there is much we can learn from them. These Elders are expert observers of the stars. They teach that everything on the land is reflected in the sky, and everything in the sky is reflected on the land. How does this work, and how can we better understand our place in the universe? Guided by six First Nations Elders, Duane Hamacher takes us on a journey across space and time to reveal the wisdom of the first astronomers. These living systems of knowledge challenge conventional ideas about the nature of science and the longevity of oral tradition. Indigenous science is dynamic, adapting to changes in the skies and on Earth, pointing the way for a world facing the profound disruptions of climate change. 'This book marks a profound paradigm shift in our understanding of Indigenous scientific traditions, how they are transmitted, and their relevance to life today.' - Professor Marcia Langton, University of Melbourne 'A ground-breaking book of enormous scope.' - Brian Schmidt, Nobel Laureate in Physics 'A glimpse into Indigenous ways of reading landscapes reflected in the night sky through ancient processes of inquiry.' - Dr Tyson Yunkaporta, author of *Sand Talk* 'A wonderful combination of scholarship and poetry.' - Dr Annette S. Lee, Lakota astrophysicist 'Beautiful, engaging, and startlingly profound.' - Alan Duffy, Professor of Astrophysics

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### MIND GYM

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#### ACHIEVE MORE BY THINKING DIFFERENTLY

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*Harper Collins* **The international bestseller** that will help you transform your personal and professional life by changing the way you think. Today, the pressure to achieve is intense. To be at our best, we need our minds working at peak potential. But unless you train it, your mind stays on autopilot, stuck in unhealthy thought patterns that lead to self-sabotaging habits and behaviors. As with your body, you have to exercise your mind to get the most out of it. Sebastian Bailey and Octavius Black, founders of Mind Gym, help you change your mental default settings through a series of "workouts" that have been tested and experienced by more than one million people from around the world and from companies such as Google, NBCUniversal, Shell, Pfizer, and PepsiCo. This hands-on guide presents a fitness program for the mind that tackles the most common challenges at work and home: How to adopt a positive mindset How to repair broken relationships How to resolve conflict successfully How to influence others How to minimize stress and gain energy How to be more creative Insightful, proven, and practical, Mind Gym is the essential mental workout that will wake up your mind and help you be your best in life.

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### A DISCOURSE CONCERNING ALGEBRA

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#### ENGLISH ALGEBRA TO 1685

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*Mathematics* Includes new research, this is the most detailed study of early modern English algebra, which builds on work published in 1685 by John Wallis on the history of algebra. It is aimed at historians of mathematics and those interested in the history of science.

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### EPIDEMIOLOGY AND THE PEOPLE'S HEALTH

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#### THEORY AND CONTEXT

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*Oxford University Press* This concise, conceptually rich, and accessible book is a rallying cry for a return to the study and discussion of epidemiologic theory: what it is, why it matters, how it has changed over time, and its implications for improving population health and promoting health equity. By tracing its history and contours from ancient societies on through the development of--and debates within--contemporary epidemiology worldwide, Dr. Krieger shows how epidemiologic theory has long shaped epidemiologic practice, knowledge, and the politics of public health.

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### WHERE DID THE UNIVERSE COME FROM? AND OTHER COSMIC QUESTIONS

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#### OUR UNIVERSE, FROM THE QUANTUM TO THE COSMOS

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*Sourcebooks, Inc.* Do you ever look up to the stars and wonder about what is out there? Over the last few centuries, humans have successfully unraveled much of the language of the universe, exploring and defining formerly mysterious phenomena such as electricity, magnetism, and matter through the beauty of mathematics. But some secrets remain beyond our realm of understanding—and seemingly beyond the very laws and theories we have relied on to make sense of the universe we inhabit. It is clear that the quantum, the world of atoms and electrons, is entwined with the cosmos, a universe of trillions of stars and galaxies...but exactly how these two extremes of human understanding interact remains a mystery. *Where Did the Universe Come From? And Other Cosmic Questions* allows readers to eavesdrop on a conversation between award-winning physicists Chris Ferrie and Geraint F. Lewis as they examine the universe through the two unifying and yet often contradictory lenses of classical physics and quantum mechanics, tackling questions such as: Where did the universe come from? Why do dying stars rip themselves apart Do black holes last forever? What is left for humans to discover? A brief but fascinating exploration of the vastness of the universe, this book will have armchair physicists turning the pages until their biggest and smallest questions about the cosmos have been answered.

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### INSPIRATION AND AUTHORITY IN THE MIDDLE AGES

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#### PROPHETS AND THEIR CRITICS FROM SCHOLASTICISM TO HUMANISM

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*Oxford University Press* **Inspiration and Authority in the Middle Ages** rethinks the role of prophecy in the Middle Ages by examining how professional theologians responded to new assertions of divine inspiration. Drawing on fresh archival research and detailed study of unpublished manuscript sources from the twelfth to fourteenth centuries, this volume argues that the task of defining prophetic authority became a crucial intellectual and cultural enterprise as university-trained theologians confronted prophetic claims from lay mystics, radical Franciscans, and other unprecedented visionaries. In the process, these theologians redescribed their own activities as prophetic by locating inspiration not in special predictions or ecstatic visions but in natural forms of understanding and in the daily work of ecclesiastical teaching and ministry. Instead of containing the spread of prophetic privilege, however, scholastic assessments of prophecy from Peter Lombard and Thomas Aquinas to Peter John Olivi and Nicholas Trevet opened space for claims of divine insight to proliferate beyond the control of theologians. By the turn of the fourteenth century, secular Italian humanists could lay claim to prophetic authority on the basis of their intellectual powers and literary practices. From Hugh of St Victor to Albertino Mussato, reflections on and debates over prophecy reveal medieval clerics, scholars, and reformers reshaping the contours of religious authority, the boundaries of sanctity and sacred texts, and the relationship of tradition to the new voices of the Late Middle Ages.

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### THE WOMEN OF THE MOON

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**TALES OF SCIENCE, LOVE, SORROW, AND COURAGE**

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*Oxford University Press, USA* Of the 1586 lunar craters that have been named to honour scientists and philosophers, only 28 honor a woman. Who were these women? What has happened to make women

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**MUSIC AND MATHEMATICS**

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**FROM PYTHAGORAS TO FRACTALS**

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*Oxford University Press on Demand* From Ancient Greek times, music has been seen as a mathematical art, and this relationship has fascinated generations. This new in paperback edition of diverse, comprehensive and fully-illustrated papers, authored by leading scholars, links the two fields in a lucid manner that is suitable for students of each subject as well as the general reader.

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**THE MUSIC OF THE SPHERES**

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**MUSIC, SCIENCE, AND THE NATURAL ORDER OF THE UNIVERSE**

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*Springer Science & Business Media* "(James) relishes the sheer quirkiness of intellectual history, rescuing some of the battier beliefs of scientists and composers from the revisionism of textbook biographies and producing a graceful and entertaining account of matters seldom presented to the general reader."-THE NEW YORKER "A provocative, engaging reassessment of the Western musical tradition and its relation to science." -PUBLISHERS WEEKLY

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**THING EXPLAINER**

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**COMPLICATED STUFF IN SIMPLE WORDS**

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*John Murray* From the No. 1 bestselling author of What If? - the man who created xkcd and explained the laws of science with cartoons - comes a series of brilliantly simple diagrams ('blueprints' if you want to be complicated about it) that show how important things work: from the nuclear bomb to the biro. It's good to know what the parts of a thing are called, but it's much more interesting to know what they do. Richard Feynman once said that if you can't explain something to a first-year student, you don't really get it. In Thing Explainer, Randall Munroe takes a quantum leap past this: he explains things using only drawings and a vocabulary of just our 1,000 (or the ten hundred) most common words. Many of the things we use every day - like our food-heating radio boxes ('microwaves'), our very tall roads ('bridges'), and our computer rooms ('datacentres') - are strange to us. So are the other worlds around our sun (the solar system), the big flat rocks we live on (tectonic plates), and even the stuff inside us (cells). Where do these things come from? How do they work? What do they look like if you open them up? And what would happen if we heated them up, cooled them down, pointed them in a different direction, or pressed this button? In Thing Explainer, Munroe gives us the answers to these questions and many, many more. Funny, interesting, and always understandable, this book is for anyone -- age 5 to 105 -- who has ever wondered how things work, and why.

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**THE SCIENCE BOOK**

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**BIG IDEAS SIMPLY EXPLAINED**

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*Penguin* Discover 80 trail-blazing scientific ideas, which underpin our modern world, giving us everything from antibiotics to gene therapy, electricity to space rockets and batteries to smart phones. What is string theory or black holes? And who discovered gravity and radiation? The Science Book presents the fascinating story behind these and other of the world's most important concepts in maths, chemistry, physics and biology in plain English, with easy to grasp "mind maps" and eye-catching artworks. Albert Einstein once quoted Isaac Newton: "If I have seen further than others, it is by standing on the shoulders of giants." Follow context panels in The Science Book to trace how one scientist's ideas informed the next. See, for example, how Alan Turing's "universal computing machine" in the 1940s led to smart phones, or how Carl Linnaeus's classifications led to Darwin's theory of evolution, the sequencing of the human genome and lifesaving gene therapies. Part of the popular Big Ideas series, The Science Book is the perfect way to explore this fascinating subject. Series Overview: Big Ideas Simply Explained series uses creative design and innovative graphics along with straightforward and engaging writing to make complex subjects easier to understand. With over 7 million copies worldwide sold to date, these award-winning books provide just the information needed for students, families, or anyone interested in concise, thought-provoking refreshers on a single subject.

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**EARTH GRIDS**

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*eBook Partnership* Do ancient maps prove that the planet was surveyed 12,000 years ago? Were the poles once in a different position to where they are today? Is there a secret pattern joining the great sites of antiquity? In this revolutionary little book, ancient sites expert Hugh Newman outlines various theories concerning geometry in the distribution of sacred sites on Earth and comes to some startling conclusions. Illustrated throughout with fantastic graphics, this book will change your world. WOODEN BOOKS are small but packed with information. "e;Fascinating"e; FINANCIAL TIMES. "e;Beautiful"e; LONDON REVIEW OF BOOKS. "e;Rich and Artful"e; THE LANCET. "e;Genuinely mind-expanding"e; FORTEAN TIMES. "e;Excellent"e; NEW SCIENTIST. "e;Stunning"e; NEW YORK TIMES. Small books, big ideas.

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