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Science has made it possible to comprehend the world we live in and the theoretical multiverses beyond, offering technological advances and extending the frontiers of knowledge. Written in plain English, The Science Book presents 80 of the most trailblazing ideas in physics, chemistry, and biology. It is packed with short, pithy explanations that cut through the jargon, step-by-step diagrams that untangle knotty theories, classic quotes that make scientific discoveries memorable, and witty ...

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David John (Editor), John Farndon (Consultant Editor), Adam Hart-Davis. 4.21 · Rating details · 794 ratings · 51 reviews. The Science Book explores how scientists have sought to explain our world and the universe, and how scientific discoveries have been made. A new title in DK's successful "Big ideas, simply explained" series, this book on science and the history of science looks at topics such as why Copernicus's ideas were contentious, how Galileo worked out his theories on motion and i.

[The Science Book: Big Ideas Simply Explained by Rob Colson](#)

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Powerful ideas. My book, Powerful ideas of Science and How to Teach them, attempts to answer this question by exploring thirteen scientific ideas that have the power to transform how young people see themselves and the world around them. Each chapter tells the story of one scientific idea and how to teach it alongside examples and non-examples from biology, chemistry and physics to show what great science teaching might look like and why.

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Working with Big Ideas of Science Education. The purpose of this publication is to update the discussion and conclusions about the essential understanding in science that all students should acquire during the compulsory years of school. It follows five years after Principles and Big Ideas of Science Education was written in response to concerns that many students did not find their science education interesting or see it as relevant to their lives.

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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.

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May 4, 2012 - Icon Books love big ideas!. See more ideas about Science and nature, Infographic, Science nature.

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.

You don't have to be a scientist to find this beginner's biology book fascinating! What is life? Why do bees dance? How do animals know their mothers? Who discovered germs? Discover the living world, how it interacts with the environment, and stand in awe of the most interesting biology facts, theories, and discoveries. The Biology Book is written in simple English making complex biological ideas accessible to everyone! Whether you're a student or lay-scientist, you'll find these pages exciting and educational because it: - Combines creative typography, graphics, and accessible text to explore the most famous and important ideas in biology and the people behind them - Includes a directory section for easy localization - Profiles more than 95 ideas and events key to the development of biology and the life sciences, with thought-provoking graphics throughout that demystify the central concepts behind each idea - Features insightful and inspiring quotes from leading biologists and scientists, such as 2020 Nobel Laureates, Emmanuelle Charpentier and Jennifer Doudna, as well as thinkers in other fields Learn everything you wanted to know about Biology Over the last few centuries, humans have been enamored by the world around us. Trace the history of scientific thought and meet the scientists who shaped the natural sciences, such as Carl Linnaeus, Jean-Baptiste Lamarck, Charles Darwin, and Gregor Mendel. From the mechanics of plants, animals, and the human body; to DNA and genetic inheritance; and the development of vaccines, explore the crucial discoveries to understand how our world works. The Biology Book uncovers over 95 key ideas in the field of biology. Step by step flowcharts, diagrams, and accessible text will help demystify complex biological processes and help you enhance your understanding. This biology book also discusses current trends such as cloning, neuroscience, human evolution, and gene editing. Whether you're new to the subject, a budding scientist, or keen to keep up with and understand current ethical and scientific debates, The Biology Book is for you. Other educational knowledge titles Love what you see here? Look out for other titles in the series such as The History Book, The Astronomy Book, and The Science Book. Specially written to help make tricky concepts simple, they're perfect for helping to mould and educate young minds.

Travel thousands of years into our past and discover the significant events that shaped the world as we know it. This book includes short, descriptive explanations of key ideas, themes, and events of world history that are easy to understand. Explore topics such as the founding of Baghdad, the colonization of the Americas, and the inception of Buddhism without complicated jargon. This book is part of DK's award-winning Big Ideas Simply Explained educational series that uses witty graphics and engaging descriptions to enlighten readers. Don't stop at American history, explore the world! This book is full of fun facts from the human story, going as far back as the origins of our species to

space exploration today. Discover all things revolution, from the French to the digital, including the rise of the internet. Enjoy short and sweet biographies of some of the most important thinkers and leaders throughout history, like Martin Luther, Charles Darwin, and Nelson Mandela. You'll learn who said famous historical quotes, and what they really meant when they said it. Big Ideas This is a modern twist on the good old-fashioned encyclopedia, now easier to follow with diagrams, mind maps, and timelines. Step-by-step diagrams will have you reviewing your ideas about history. Start from the very beginning: - Human Origins 200,000 years ago - 3500 BGE - Ancient Civilizations 6000 BGE - 500 CE - The Medieval World 500 - 1492 - Early Modern Era 1420 - 1795 - Changing Societies 1776 - 1914 - The Modern World 1914 - Present The Series Simply Explained With over 7 million copies sold worldwide to date, The History Book is part of the award-winning Big Ideas Simply Explained series from DK Books. It uses innovative graphics along with engaging writing to make complex subjects easier to understand.

Explore the laws and theories of physics in this accessible introduction to the forces that shape our universe, our planet, and our everyday lives. Using a bold, graphics-led approach, The Physics Book sets out more than 80 of the key concepts and discoveries that have defined the subject and influenced our technology since the beginning of time. With the focus firmly on unpacking the thought behind each theory—as well as exploring when and how each idea and breakthrough came about—five themed chapters examine the history and developments in specific areas such as Light, Sound, and Electricity. Eureka moments abound: from Archimedes' bathtub discoveries about displacement and density, and Galileo's experiments with spheres falling from the Tower of Pisa, to Isaac Newton's apple and his conclusions about gravity and the laws of motion. You'll also learn about Albert Einstein's revelations about relativity; how the accidental discovery of cosmic microwave background radiation confirmed the Big Bang theory; the search for the Higgs boson particle; and why most of the universe is missing. If you've ever wondered exactly how physicists formulated—and proved—their abstract concepts, The Physics Book is the book for you. 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.

A beautifully illustrated celebration of science from the clever people who bring you AQUILA magazine. Ideas are important. They change things. A single idea can start a war, save billions of lives, even rearrange whole planetary systems, or simply make a person giggle until they pee a little bit. They can be totally wrong but widely believed, or undoubtedly right and completely ignored. What's more, they're free, and anyone can have one—including you! The Book of Big Science Ideas looks at 15 brilliant science ideas and more than 50 ingenious thinkers who have helped shape our understanding of the world - whether they were right or wrong! Thinkers include, Wang Zhenyi, Louis Pasteur, Marie Curie, James Joule, Rosalind Franklin, Charles Darwin, Aristotle, Edith Clarke, Isaac Newton, Grace Hopper, Alan Turing, Ada Lovelace and many, many more! From established ideas like atoms, electricity and the solar system, and ideas that are still evolving such as gravity, energy and classification, right up to recent discoveries like AI and genetics - this jam-packed book takes a fresh approach to science.

Explore ecology in this accessible introduction to how the natural world works and how we have started to understand the environment, ecosystems, and climate change. Using a bold, graphic-led approach, The Ecology Book explores and explains more than 85 of the key ideas, movements, and acts that have defined ecology and ecological thought. The book has a simple chronological structure, with early chapters ranging from the ideas of classical thinkers to attempts by Enlightenment thinkers to systematically order the natural world. Later chapters trace the evolution of modern thinking, from the ideas of Thomas Malthus, Henry Thoreau, and others, right up to the political and scientific developments of the modern era, including the birth of the environmental movement and the Paris Agreement. The ideal introduction to one of the most important subjects of our time.

Since the dawn of humankind, people have looked upward to the heavens and tried to understand what's out there. This encyclopedia takes you on a journey through time and space to discover our place in the Universe. From the planets and stars to black holes and the Big Bang, we invite you to take a journey through the wonders of the Universe. Get ready to discover the story of the Universe one page at a time! This educational book for young adults will launch you on a wild trip through the cosmos and the incredible discoveries throughout history. Filled to the brim with beautifully illustrated flowcharts, graphics, and jargon-free language, The Astronomy Book breaks down hard-to-grasp concepts to guide you in understanding almost 100 big astronomical ideas. The Way to The Stars is Open! How do we measure the Universe? Where is the event horizon? What is dark matter? Now you can find out all the answers to these questions and so much more in this inquisitive book about our Universe! Using incredibly clever visual learning devices like step-by-step diagrams, you'll learn more about captivating topics from the Copernican Revolution. Dive into the mind-boggling theories of recent science in a user-friendly format that makes the information easy to follow. Explore the biographies, theories, and discoveries of key astronomers through the ages such as Ptolemy, Galileo, Newton, Hubble, and Hawking. To infinity and beyond! Journey through space and time with us: - From Myth to Science 600 BCE - 1550 CE - The Telescope Revolution 1550 - 1750 - Uranus to Neptune 1750 - 1850 - The Rise of Astrophysics 1850 - 1915 - Atom, Stars, And Galaxies 1915 - 1950 - New Windows on The Universe 1950 - 1917 - The Triumph of Technology 1975 - Present The Series Simply Explained With over 7 million copies sold worldwide to date, The Astronomy Book is part of the award-winning Big Ideas series from DK Books. It uses innovative graphics along with engaging writing to make complex subjects easier to understand. Awards A Young Adult Library Services Association Outstanding Books for the College Bound and Lifelong Learners list selection A Mom's Choice Awards® Honouring Excellence Gold Seal of Approval for Young Adult Books A Parents' Choice Gold Award winner

See how math's infinite mysteries and beauty unfold in this captivating educational book! Discover more than 85 of the most important mathematical ideas, theorems, and proofs ever devised with this beautifully illustrated book. Get to know the great minds whose revolutionary discoveries changed our world today. You don't have to be a math genius to follow along with this book! This brilliant book is packed with short, easy-to-grasp explanations, step-by-step diagrams, and witty illustrations that play with our ideas about numbers. What is an imaginary number? Can two parallel lines ever meet? How can math help us predict the future? All will be revealed and explained in this encyclopedia of mathematics. It's as easy as 1-2-3! The Math Book tells the exciting story of how mathematical thought advanced through history. This diverse and inclusive account will have something for everybody, including the math behind world economies and espionage. This book charts the development of math around the world, from ancient mathematical ideas and inventions like prehistoric tally bones through developments in medieval and Renaissance Europe. Fast forward to today and gain insight into the recent rise of game and group theory. Delve in deeper into the history of math: - Ancient and Classical Periods 6000 BCE - 500 CE - The Middle Ages 500 - 1500 - The Renaissance 1500 - 1680 - The Enlightenment 1680 - 1800 - The 19th Century 1800 - 1900 - Modern Mathematics 1900 - Present The Series Simply Explained With over 7 million copies sold worldwide to date, The Math Book is part of the award-winning Big Ideas Simply Explained series from DK Books. It uses innovative graphics along with engaging writing to make complex subjects easier to understand.

All your complicated economic questions and theories explained by world experts. Economics is a broad topic, and your knowledge might be limited if you're not an economist by profession -- until now! The Economics Book is your jargon-free, visual guide to understanding the

production and distribution of wealth. Using a combination of authoritative, clear text, and bold graphics, this encyclopedia explores and explains big questions and issues that affect us all. Everything from taxation, to recession to the housing market and much more! By following an innovative visual approach, The Economics Book demystifies and untangles complicated theories. Make sense of abstract concepts through colorful graphics, fun facts, and step-by-step flow diagrams. Satisfy Your Hunger for Knowledge Dive deeper into the history of economics with this page-turning book! From the ancient Greeks to today, you'll discover over 100 key ideas from the world's greatest theorists like Thomas Malthus, John Maynard Keynes, and Milton Friedman. Fortunately, you don't need an economics degree to gain this type of understanding. The Economics Book is your accessible guide to tons of invaluable economic knowledge and learning how the economy shapes our world! This book will be your guide through the history of economics: - Let the Trading Begin 400 BCE - 1770 CE - The Age of Reason 1770 - 1820 - Industrial and Economic Revolutions 1820 - 1929 - War and Depressions: 1929 - 1945 - Post-War Economics 1945 - 1970 - Contemporary Economics 1970 - Present The Series Simply Explained With over 7 million copies sold worldwide to date, The Economics Book is part of the award-winning Big Ideas Simply Explained series from DK Books. It uses innovative graphics along with engaging writing to make complex subjects easier to understand.

This comprehensive, accessible, and authenticated guide to Islam is essential to understanding the world's fastest-growing religion. This essential guide to Islam covers every aspect of the Muslim faith and its history - from the life of the Prophet Muhammad and the teachings of the Koran to Islam in the 21st century. Celebrating the scientific, literary, and artistic achievements of the Islamic Golden Age and the ideas of philosophers and theologians across the centuries, it opens a window on the Islamic world. Clear factual writing offers insight into terms like Sharia law, the Caliphate, and jihad; Sunni and Shia divisions; and Sufi poetry and music. Images of Islamic art, architecture, calligraphy, and historical artefacts illustrate the articles while the Big Ideas' trademark infographics and flowcharts explore and explain the central tenets of Islam, such as prayer, fasting, and pilgrimage. Modern issues such as fundamentalism are discussed in context alongside the work of peaceful traditionalists, modernizers, and women's rights campaigners, among others. Packed with inspiring quotations and bold illustrations, The Islam Book is an invaluable source of information both for members of one of the world's major religions and readers looking for a clear unbiased guide to the meaning of this faith.

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