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# Physics In Minutes Giles Sparrow

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## *How We Learn* Prelude Books

This concise, illuminating guide takes us on a comprehensive tour of our bodies, explaining how they work and why they work that way, from the basic unit of the cell, through the tissues and organs that make up the body's systems, to how these systems work together to form a complete human being, from evolution, genetics, and conception through to disease, death, and how technology will transform the body of the future. *The Human Body in Minutes* covers the features and functions of all the major body systems including the skeletal, muscular, digestive, respiratory, cardiovascular, immune, reproductive, nervous, and hormonal systems, as well as human evolution, inheritance and

genetics, human behavior, and illness and medicine.

With 200 cutting-edge anatomical images, cross-sections, and closeups that detail and explain the brain, eye, heart, skin, skeleton, lung, kidney, ear, blood liver, stomach, muscles, veins, arteries, DNA, chromosomes, and all of the key features of our bodies, this is the perfect, easy reference to the anatomy, physiology, and science of the human body.

## *The Memory Keeper's Daughter* Quercus

The biggest and best ever reproduction of the Space Age's most remarkable images The magnificent vault of stars emblazoning Earth's night skies are but an infinitesimal fraction of the hundreds of billions that inhabit our galaxy - and there are at least as many galaxies in the universe as there are stars in the Milky Way. *Cosmos*

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makes sense of this dizzying celestial panorama by exploring it one step at a time, illustrating the planets, moons, stars, nebulae, white dwarfs, black holes and other exotica that populate the heavens with some of science's most spectacular photographs. The book opens with an orbital survey of planet Earth, before venturing into the solar system heading for interstellar space and the heart of our galaxy. As the journey unfolds, the rhythms of stellar life emerge: we pass through dark clouds of dust and gas ablaze with newly smelted stars and we witness dying stars bloom and fade as planetary nebulae, or tear themselves apart as supernovae. Having crossed the Milky Way, we enter intergalactic space. Out here we watch the hidden lives of galaxies: we see them flock and cluster, forming massive

conglomerations that span millions of light years, visibly warping space with their tremendous gravity. After covering an almost unimaginable 13.4 billion light years, we approach the edge of space and the dawn of time where our voyage must end, but not before we consider how the universe was born, and how it might die. A landmark in popular science publishing, Cosmos is a majestic, giant format, account of the ultimate journey - a 13.7-billion-light-year- (or 130-billion-trillion kilometre- ) voyage from our home planet to the edge of the universe and the beginning of time.

Illustrated with 450 images of staggering beauty.

[A History of the Universe in 21 Stars: \(and Three](#)

[Imposters\)](#) Book Sales

Why 60 seconds in a minute?

Who invented zero? What exactly is pi? Why do

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mathematicians hunt prime numbers? And how can you get a number bigger than infinity? To find out, take a tour through 200 important, fascinating and unusual numbers - the easy and entertaining way to grasp mathematics. Numbers in Minutes demystifies the maths surrounding the key numbers including: zero, 1-40, negatives, percentages, prime numbers, fractions, decimals, pi, exponentials, imaginary numbers, squares and cubes, roots and powers, Fibonacci numbers, the golden ratio, millions and trillions, a googol, 'perfect,' 'kissing,' 'vampire' and 'weird' numbers, infinity, infinity+1 and other sizes of infinity... Every number is explained in a few short paragraphs with a helpful picture, making the maths simple to understand and remember.

### Astronomy in Minutes

Marshall Cavendish

The heavens are alive with breathtaking beauty: from the incandescent surface of the Sun to the shimmering tail of a comet; the birth of planets to the death of stars; the dancing shadows of Jupiter's moons to the silhouettes of eclipses. The Cosmic Gallery

contemplates the entire cosmos as a grand celestial art exhibit. In six thematically organized chapters, Giles Sparrow presents an array of stunning images, ranging from easily seen phenomena to the most distant and intricate galaxies, providing the reader with an exciting and beautiful new perspective on the cosmos.

### Physics in Minutes

Quercus  
The Illustrated Encyclopedia of Space & Space Exploration will

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inspire and educate anyone interested in finding out more about the Universe.

**Field Guide to Fantastic Creatures** John Wiley & Sons

Physics in Minutes covers everything you need to know about physics, condensed into 200 key topics. Each idea is explained in clear, accessible language, building from the basics, such as mechanics, waves and particles, to more complex topics, including neutrinos, string theory and dark matter. Based on scientific research proving that the brain best absorbs information visually, illustrations accompany the text to aid quick comprehension and easy recollection. This convenient and compact reference book is ideal for

anyone interested in how our world works. Chapters include: Newton's Laws of Motion, Schrödinger's cat, Magnetism, Superconductivity, Fission and fusion, Higgs Boson, Entropy, Dark matter.

**Solar System in Minutes** Penguin

Includes : What is nickel? -- Special characteristics -- The history of nickel -- Where nickel is found -- Mining and refining -- Nickel and its compounds -- Nickel in steel -- Other nickel alloys -- Nickel coins -- Nickel and the body -- Periodic tabel -- Chemical reactions.

Youniverse: A Short Guide to Modern Science Quercus Books

What happens when a star dies? How many asteroids are in our solar system? Can galaxies collide? What is dark energy? Astronomy in Minutes answers all these

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questions and more as it condenses 200 key concepts into easily digestible essays. From Trojan asteroids to stellar black holes, and from superclusters to cosmic microwave background, this book will take you on an essential tour around the universe. Beginning with the specks and constellations that we see in the night sky, and then zooming in on the objects and 'matter' beyond the naked eye, *Astronomy in Minutes* draws on established theories and recent research. Each essay is accompanied by an image or a clear diagram to help unravel complex ideas. Beginning with the constellations and finishing with the latest cosmological theories, this is the perfect reference guide to this fascinating subject. Contents include: The celestial sphere, *Piscis Austrinus*, the Earth-Moon system, Io and Ganymede, Kuiper Belt Objects, Measuring stellar

properties, Nuclear fusion, Red and orange dwarfs, Open star clusters, Planetary nebulae, Supernova remnants, Cosmic expansion, Quasars and blazars, Nature of spacetime, Nucleosynthesis and the Anthropic Principle.

*Science in Seconds* Icon Books

Discusses the origin, discovery, special characteristics, and uses of iron.

**The Planets** Firefly Books Limited

Within the last 40 years, the contents of our solar system have been slowly revealed by a fleet of satellites and interplanetary probes, from Cassini to the Hubble Space Telescope to the recent Mars Exploration Rovers. Moving out from the Sun, every planet and moon is visited in this comprehensive survey that follows the tracks of robotic rovers over Mars, plunges through Titan's atmosphere

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on the back of the Huygens probe, inspects a comet, and discovers the frozen planets that lurk beyond the orbit of Neptune, a full light year from Earth. The breathtaking images of dozens of celestial bodies are accompanied by fascinating captions and informative diagrams, completing this stunning compilation.

*The Illustrated Encyclopedia of Space & Space Exploration*  
Quercus

Join us on the most amazing voyage imaginable: travel over 13.7-billion light years and experience the awesome sights, spectacles and breathtaking scale of the cosmos. Along the way you will visit planets, moons, asteroids, stars, nebulae, white dwarfs, black holes, dark matter and other phenomena that populate the heavens. Data streams, digital readouts and unique graphic interfaces, such as 'Image Enhance', 'Atmosphere Analysis' and 'Surface Detail' provide intrepid cosmic voyagers with a wealth of facts, information and data about all

the celestial bodies they encounter - as well as some of the deadly hazards that lurk in outer space and how to avoid them. Printed in dramatic over-sized format and packed with more than 300 of science's most spectacular photographs, *Across the Cosmos* is quite simply the biggest, best and most exciting children's space book ever published. *Across the Cosmos* is specifically designed and written for children aged 7+ years. The sections are: *Across the Solar System* *Through the Milky Way* *Beyond our Galaxy* **Constellations** Hachette UK

From the author of the acclaimed *The Epigenetics Revolution* ('A book that would have had Darwin swooning' – Guardian) comes another thrilling exploration of the cutting edge of human science. For decades after the structure of DNA was identified, scientists focused purely on genes, the regions of the genome that contain codes for the production of proteins. Other regions – 98% of the

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human genome – were dismissed as ‘junk’. But in recent years researchers have discovered that variations in this ‘junk’ DNA underlie many previously intractable diseases, and they can now generate new approaches to tackling them. Nessa Carey explores, for the first time for a general audience, the incredible story behind a controversy that has generated unusually vituperative public exchanges between scientists. She shows how junk DNA plays an important role in areas as diverse as genetic diseases, viral infections, sex determination in mammals, human biological complexity, disease treatments, even evolution itself – and reveals how we are only now truly unlocking its secrets, more than half a century after Crick and Watson won their Nobel prize for the discovery of the structure of DNA in 1962.

*Quantum Physics in Minutes*

Quercus Publishing

Although a mere speck in the vast cosmos, humans have managed to piece together an incredible understanding of the Universe. Discover its magic and unravel its mysteries with this book. Starting from a launchpad on Earth, set off on an enthralling journey to the Solar System, the Milky Way, and finally to the very edges of the known Universe. *Space: From Earth to the Edge of the Universe* features fascinating facts, an engaging narrative, and rich photographs that help you comprehend the vastness of this world that we exist in. The book has been divided into seven chapters covering intriguing concepts such as spacewalking, getting close to the Sun, and the Planetary



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Nebulae. Detailed illustrations and explanatory artworks give you a deep insight into the limits of galaxies, what lies in our neighboring worlds, the rings and moons of other planets, and much more. Discover the technology and spacecrafts behind the extraordinary journeys undertaken by astronauts, study the planets, asteroids, and galaxies and immerse yourself in the important space discoveries of our time. Featuring the latest spectacular images from NASA and other sources, Space will take you on the expedition of a lifetime.

### The Cosmic Gallery

Quercus

Mars has always fascinated humanity and the findings of the past decade have revolutionized ideas about our nearest neighbour -

revealing its watery past and geological similarity to Earth. This volume, filled with the latest and most magnificent images to be sent back from Curiosity, will walk you in the footsteps of the NASA probes and rovers that have been surveying the planet from 1964 until the present day. Experience its otherworldly beauty as you hover over sinister dust devils, immense icecaps and textured rock formations. Mars charts an incredible course across this unfamiliar planet, depicting all sides, seasons, channels and chasms, from the North Pole to the Southern Highlands. Witness the soaring heights of Olympus Mons - the tallest volcano in the Solar System - watch a giant dust storm tear through the canyons of the Valles

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Marineris, and explore the broad valleys of Chryse Planitia, scarred from catastrophic floods. Detailed and accessible essays explain how Mars was formed, shedding light on its internal and external structure, weather systems and unique geographical features, as well as on the compelling evidence of water and microscopic life. Each image is accompanied by a caption that explains in unparalleled detail the abstract patterns and peculiar geology that form this majestic planet. Featuring over 200 spectacular photographs and informative colour diagrams, an atlas of the surface and details of the most recent scientific discoveries, Mars is the perfect introduction to the Red Planet.

[Atlas of the Constellations](#)

Quercus  
Physics in Minutes  
Quercus Publishing  
[The Stargazer's Handbook](#)  
Quercus Publishing  
This compelling story of exploration charts and celebrates humankind in space, from Sputnik's launch in 1957 through the Apollo Moon landings and the International Space Station to future missions to Mars and beyond. Spaceflight chronicles how, in the half-century that followed Sputnik, the world was revolutionized by space travel and exploration. The opening up of Earth's orbit to satellites led to a revolution in communications, monitoring of the environment, and materials science. For the human imagination, the impact has been even greater: the voyages of robotic space probes have transformed our view of the Solar System, while Earth-orbiting satellites and missions to the Moon have forever changed our view of ourselves. This book is a celebration of human ingenuity and imagination. From the work of pioneers like Wernher von Braun, Yuri

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Gagarin, and Neil Armstrong to the triumphs and tragedies that followed, it reveals the people, science, and technology that have propelled us into the Space Age.

Fartology Gramercy Books

On any clear night, the night sky offers an ever-changing display of fascinating objects, visible to the naked eye: stars, constellations, bright planets, the moon, human-made satellites, and sometimes even meteor showers or the International Space Station. With gorgeous high-definition imagery and a wealth of charts, graphs, and infographics, readers will find here what is visible in the night sky at various times of the year and from what locations around the world. They will learn what additional objects they can see with the help of telescopes, binoculars, and sky maps. Also featured are skywatching terms and night sky observing tips.

Cosmos Close-up Welbeck Publishing

“There are words that are so familiar they obscure rather than illuminate the thing they mean, and ‘learning’ is such a word. It

seems so ordinary, everyone does it. Actually it’s more of a black box, which Dehaene cracks open to reveal the awesome secrets within.”--The New York Times Book Review An illuminating dive into the latest science on our brain's remarkable learning abilities and the potential of the machines we program to imitate them The human brain is an extraordinary learning machine. Its ability to reprogram itself is unparalleled, and it remains the best source of inspiration for recent developments in artificial intelligence. But how do we learn? What innate biological foundations underlie our ability to acquire new information, and what principles modulate their efficiency? In *How We Learn*, Stanislas Dehaene finds the boundary of computer science, neurobiology, and cognitive psychology to explain how learning really works and how to make the best use of the brain’s learning algorithms in our schools and universities, as well as in everyday life and at any age.

Nickel Thames & Hudson

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Honoring the fiftieth anniversary of the first space flight, a visual study of human ventures into outer space covers the U.S. and Soviet space race, as well as the efforts of other countries around the world, chronicling the development of space technology, future planned space missions, and key accomplishments, ranging from the first satellite launch to the moon landing.

**Hubble** Oxford University Press

From the craters of the Moon to the far reaches of Orion, *The Stargazer's Handbook* will enable you to explore space without leaving the comforts of Earth. All you need are a pair of binoculars and a clear night sky to experience the wonders of the universe. This book will take you on a

journey through space, beginning with our own moon and neighboring planets before exploring the fascinating sights of deep space—from hypergiant suns and stellar nurseries to blazing nebulae and swirling galaxies. Each star, planet, or constellation is fully illustrated and accompanied by an annotated star map, as well as close-up images that zoom in on areas of interest. Featuring up-to-date information on the latest scientific discoveries, monthly sky maps for both northern and southern hemispheres, history and mythology of all 88 constellations and the rationale behind the names of stars and constellations, *The Stargazer's Handbook* will fully equip you with the tools to navigate-and understand-the night sky.