READ LIKE US

DRIFFIELD SCHOOL & SIXTH FORM

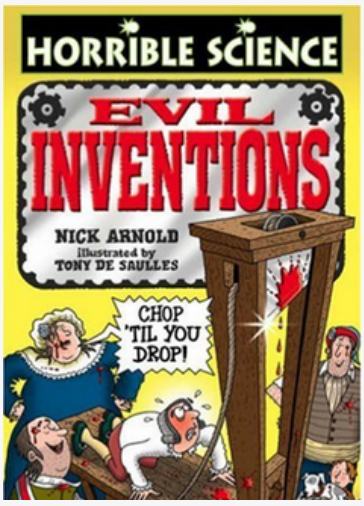
CONTENTS:

Welcome to our termly update to celebrate everything literary both in and outside of Driffield School. We continue to highlight the importance of literacy through reading, writing and speaking in all areas of our school's curriculum.

This first edition of 2023/24 academic year focuses primarily on science. All the book recommendations for this term are linked with the science curriculum or encourage inquisitive minds to widen their appreciation for science in our world.

Literacy in the science classroom

Students in KS3 have been introduced by their science teachers to a science reading book that is also available to loan from the LRC. As part of our chemistry topic lessons, Year 7 have been reading appropriate sections from Horrible Science books: Horrible Science is a spin-off series of books of Horrible Histories written by Nick Arnold.



They are designed to get children interested in science by concentrating on the trivial, unusual, gory, or unpleasant. They have read the sections and using our whole school reading strategy 'Reciprocal reader' have been able to summarise the science information and link it to their current chemistry topic.

In KS3 biology lessons students have been reading science-based journal articles and using the whole school reading strategy of 'Who, What, Why' based review questions and reciprocal reading. Students have also been reading historical stories such as that of Alexis St Martin and the bullet wound leading to the discovery of stomach acid: Alexis St Martin (April 8, 1802 – June 24, 1880) was a Canadian voyageur who is known for his part in experiments on digestion in humans, conducted on him by the American Army physician William Beaumont between 1822 and 1833. St Martin was shot in a near-fatal accident in 1822. His wound did not heal fully, leaving an opening into his stomach. Studies of St Martin's stomach led to greater understanding of the stomach, gastric juices and the processes of digestion. We also link student learning to much more current topical issues in science such as an article titled 'How well do masks protect against COVID?' Articles such as these encourage our students to be able to think critically about information presented to them in a range of formats.

Literacy in the science classroom

Throughout Years 12 and 13 students are being exposed in lessons and homework to a range of articles from ZigZag Science that are linked to their topic learning. This is to help them to extend their learning and challenge them to read like a scientist. These include regular exposure to comprehension tasks and high challenge vocabulary such as that in the Physics article about Motion in a straight line, 'reference frame' and 'paradox.'

Y13 Biologists engage in reading topic-based articles such as 'The secret life of fungi' to develop their understanding and appreciation of decay and decomposition and the organisms' life cycles associated with this process.

Beneath the surface

The secret life of fungi

The fungi kingdom can be identified by its eukaryotic cells, mycelium-forming hyphae and **saprobiotic** feeding methods, as well as by its better known fruiting bodies that grow above the ground. Commonly seen UK species include the common inkcap and common earthball, along with the strange yellow brain fungus and the famous fly agaric. Fungi are essential to ecosystem nutrient cycling, and, as scientists are beginning to realise, play a crucial role in connecting woodlands and storing carbon. People have used fungi for centuries in bread making and alcohol brewing, and research suggests that the fungi kingdom may have even more to offer than all of this!

Figure19: The fruiting bodies of (from top left) common inkcap, common earthball, yellow brain and fly agaric

RECOMMENDED READING:

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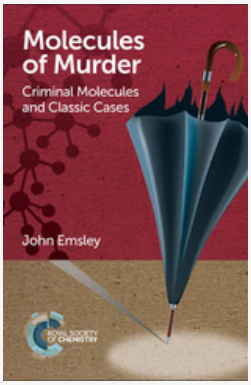
CHEMISTRY

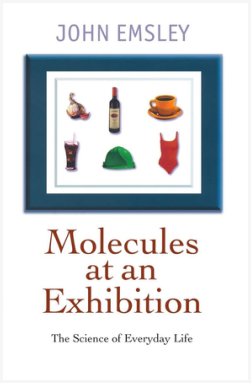
KEY
BOOKS APPROPRIATE FOR THE FOLLOWING AGE GROUPS:

KS3
KS4
KS5



MOLECULES OF MURDER: CRIMINAL MOLECULES AND CLASSIC CASES

This book follows on from John Emsley's international bestseller, "Elements of Murder", this time taking the reader on a journey of discovery into the world of dangerous organic poisons. "Molecules of Murder" describes ten highly toxic molecules which are of particular interest due to their use in notorious murder cases. Each chapter explores the discovery of the molecules, their chemistry and effects in humans, followed by a re-examination of their deliberate misuse in high profile murder cases! Including a glossary of technical terms, this book is written by the highly acclaimed science writer John Elmsey and makes excellent reading for both scientists and non-scientists alike.



MOLECULES AT AN EXHIBITION: PORTRAITS OF INTRIGUING MATERIALS IN EVERYDAY LIFE

What ingredient in Coke can remove rust from chrome? What is the bitterest substance on earth? What is the worst smelling one? In this entertaining tour of chemistry, John Emsley answers these and many other questions as he illuminates the materials that make up our world. Dozens of lively articles explore such well-known molecules as water, oxygen, and glass; versatile plastics like polypropylene, polystyrene, and polyurethane; even "elements from hell" such as Sarin (a lethal nerve gas). With no formulas, equations, or molecular diagrams to baffle the non-expert, each piece blends history, science, and anecdote, with many intriguing facts added to the mix. "The world of chemistry has never been made as entertaining," writes Nobel Prize-winning chemist Roald Hoffmann. Indeed, this book will fascinate everyone curious about the chemicals in the foods we eat, the clothes we wear, and the air we breathe.

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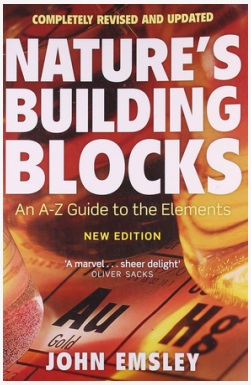
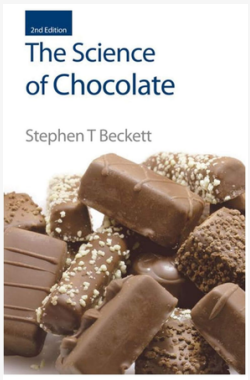


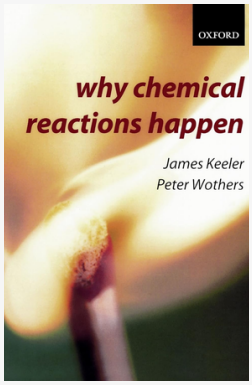
NATURE'S BUILDING BLOCKS: AN A-Z GUIDE TO THE ELEMENTS

In this readable, informative, and fascinating guide to the elements are entries on each of the 100-odd chemical elements, arranged alphabetically from actinium to zirconium. Each entry comprises an explanation of where the element's name comes from, followed by Body element (the role it plays in living things), Element of history (how and when it was discovered), Economic element (what it is used for), Environmental element (where it occurs, how much), Chemical element (facts, figures, and narrative), and Element of surprise (an amazing, little-known fact).



THE SCIENCE OF CHOCOLATE

The Science of Chocolate takes the reader on the journey of chocolate, to discover how confectionery is made and the way in which basic science plays a vital role. The second edition contains new chapters, covering topics which include nutrition - why chocolate is good for you - how to stop it melting in hot countries and possible methods of putting bubble inside a chocolate bar. This book will appeal to those with a fascination for chocolate and will be of specialist interest to those studying food sciences and working in the confectionery industry. A series of experiments, which can be adapted to suit students, are included to demonstrate the physical, chemical and mathematical principles involved.



WHY CHEMICAL REACTIONS HAPPEN

By tackling the most central ideas in chemistry, Why Chemical Reactions Happen provides the reader with all the tools and concepts needed to think like a chemist. The text takes a unified approach to the subject, aiming to help the reader develop a real overview of chemical processes, by avoiding the traditional divisions of physical, inorganic and organic chemistry. To understand how chemical reactions happen we need to know about the bonding in molecules, how molecules interact, what determines whether an interaction is favorable or not, and what the outcome will be. Answering these questions requires an understanding of topics from quantum mechanics, through thermodynamics, to "curly arrows". In this book all of these topics are presented in a coherent and coordinated fashion, showing how each leads to a deeper understanding of chemical reactions.

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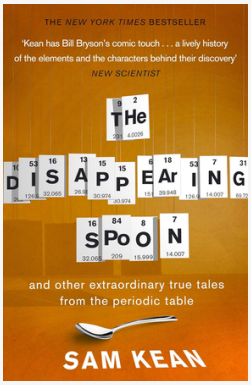
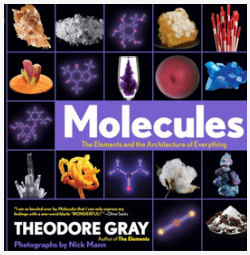


THE DISAPPEARING SPOON...AND OTHER TALES FROM THE PERIODIC TABLE

Why did Gandhi hate iodine (I, 53)? Why did the Japanese kill Godzilla with missiles made of cadmium (Cd, 48)? 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 fascinating tales in The Disappearing Spoon follow carbon, neon, silicon, gold and every single element 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.



MOLECULES: THE ELEMENTS AND THE ARCHITECTURE OF EVERYTHING

In Molecules, Gray goes beyond the 118 elements in the periodic table to explore, through fascinating stories and stunning photographic imagery, what he considers to be the most essential and interesting of the millions of possible chemical bonds. At the beginning of the Molecules Gray explains what molecules and compounds are, what holds them together and how they form bonds, the difference between ionic and covalent bonds, how molecules get their names and what their scientific names mean and the difference between organic and inorganic compounds.

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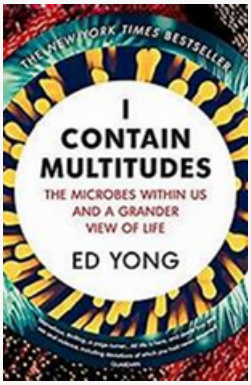
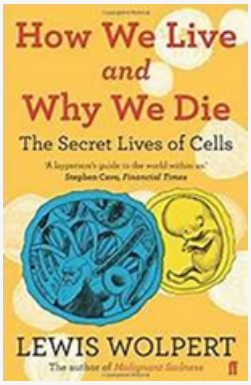
BIOLOGY



I CONTAIN MULTITUDES: THE MICROBES WITHIN US

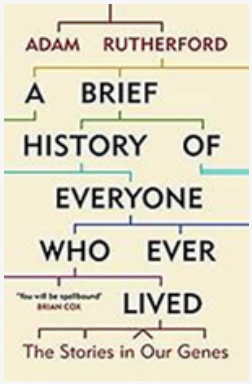
Every animal, whether human, squid, or wasp, is home to millions of bacteria and other microbes. Pulitzer Prize-winning author Ed Yong, whose humor is as evident as his erudition, prompts us to look at ourselves and our animal companions in a new light--less as individuals and more as the interconnected, interdependent multitudes we assuredly are.



HOW WE LIVE AND WHY WE DIE: THE SECRET LIVES OF CELLS

Cells are the basis of all life in the universe. Our bodies are made up of billions of them: an incredibly complex society that governs everything, from movement to memory and imagination. When we age, it is because our cells slow down; when we get ill, it is because our cells mutate or stop working.

In How We Live and Why we Die, Wolpert provides a clear explanation of the science that underpins our lives. He explains how our bodies function and how we derived from a single cell - the embryo. He examines the science behind the topics that are much discussed but rarely understood - stem-cell research, cloning, DNA - and explains how all life evolved from just one cell. Lively and passionate, How We Live and Why we Die is an accessible guide to understanding the human body and, essentially, life itself.



A BRIEF HISTORY OF EVERYONE WHO EVER LIVED

This is a story about you.

It is the history of who you are and how you came to be. It is unique to you, as it is to each of the 100 billion modern humans who have ever drawn breath. But it is also our collective story, because in every one of our genomes we each carry the history of our species - births, deaths, disease, war, famine, migration and a lot of sex.

Since scientists first read the human genome in 2001 it has been subject to all sorts of claims, counterclaims and myths. In fact, as Adam Rutherford explains, our genomes should be read not as instruction manuals, but as epic poems. DNA determines far less than we have been led to believe about us as individuals, but vastly more about us as a species.

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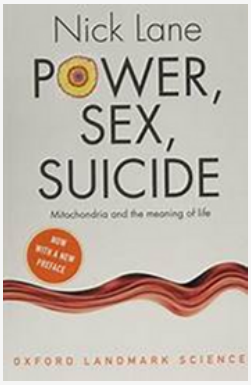
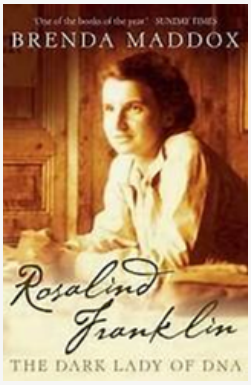


POWER, SEX, SUICIDE: MITOCHONDRIA AND THE MEANING OF LIFE

Mitochondria are tiny structures located inside our cells that carry out the essential task of producing energy for the cell. They are found in all complex living things, and in that sense, they are fundamental for driving complex life on the planet. But there is much more to them than that.

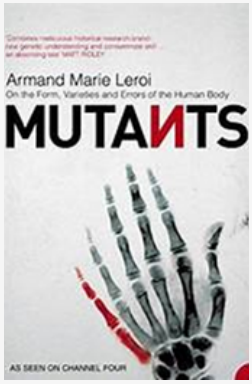
Oxford Landmark Science books are 'must-read' classics of modern science writing which have crystallized big ideas, and shaped the way we think.



ROSALIND FRANKLIN: THE DARK LADY OF DNA

In 1962, Maurice Wilkins, Francis Crick, and James Watson received the Nobel Prize, but it was Rosalind Franklin's data and photographs of DNA that led to their discovery.

Brenda Maddox tells a powerful story of a remarkably single-minded, forthright, and tempestuous young woman who, at the age of fifteen, decided she was going to be a scientist, but who was airbrushed out of the greatest scientific discovery of the twentieth century.



MUTANTS: ON THE FORM, VARIETIES AND ERRORS OF THE HUMAN BODY

Full of fascinating and bizarre cases of genetic mutation and irregularity, 'Mutants' is an amazing exploration of the human form in all its beautiful and unique guises.

Why are most of us born with one nose, two legs, ten fingers and twenty-four ribs – and some of us not? Why do most of us stop growing in our teens – while others just keep going? Why do some us have heads of red hair – and others no hair at all? The human genome, we are told, makes us what we are. But how?

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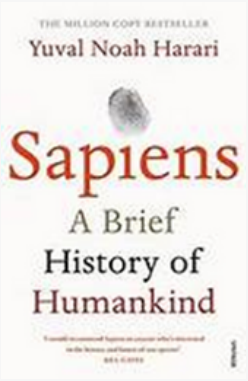
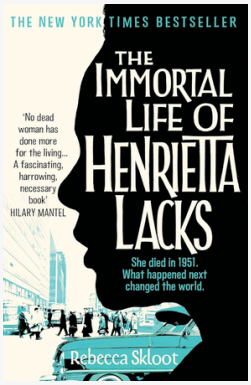


SAPIENS: A BRIEF HISTORY OF HUMANKIND

What makes us brilliant? What makes us deadly? What makes us Sapiens?

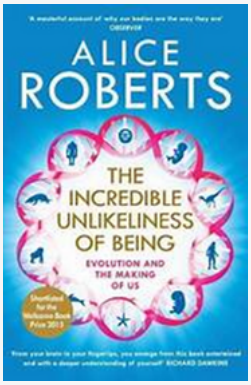
One of the world's preeminent historians and thinkers, Yuval Noah Harari challenges everything we know about being human.

Earth is 4.5 billion years old. In just a fraction of that time, one species among countless others has conquered it: us.



THE IMMORTAL LIFE OF HENRIETTA LACKS

Her name was Henrietta Lacks, but scientists know her as HeLa. Born a poor black tobacco farmer, her cancer cells – taken without her knowledge – became a multimillion-dollar industry and one of the most important tools in medicine. Yet Henrietta's family did not learn of her 'immortality' until more than twenty years after her death, with devastating consequences . . .
Rebecca Skloot's fascinating account is the story of the life, and afterlife, of one woman who changed the medical world forever. Balancing the beauty and drama of scientific discovery with dark questions about who owns the stuff our bodies are made of, The Immortal Life of Henrietta Lacks is an extraordinary journey in search of the soul and story of a real woman, whose cells live on today in all four corners of the world.



THE INCREDIBLE UNLIKELINESS OF BEING

Alice Roberts takes you on the most incredible journey, revealing your path from a single cell to a complex embryo to a living, breathing, thinking person. It's a story that connects us with our distant ancestors and an extraordinary, unlikely chain of events that shaped human development and left a mark on all of us. Alice Roberts uses the latest research to uncover the evolutionary history hidden in all of us, from the secrets found only in our embryos and genes - including why as embroyos we have what look like gills - to those visible in your anatomy. This is a tale of discovery, exploring why and how we have developed as we have.

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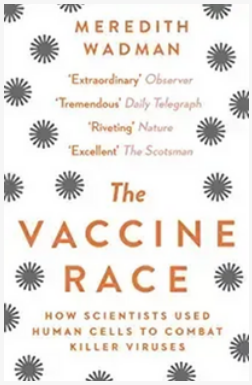
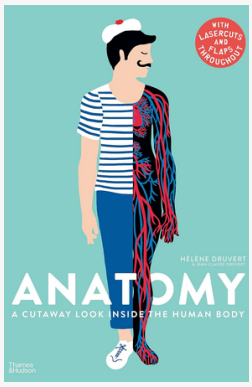


THE VACCINE RACE

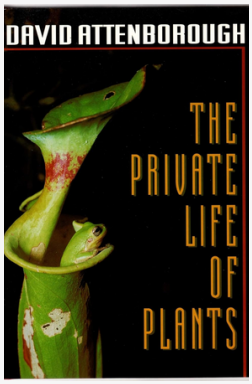
Until the late 1960s, tens of thousands of children suffered crippling birth defects if their mothers had been exposed to rubella, popularly known as German measles, while pregnant. There was no vaccine and little understanding of how the disease devastated foetuses. In June 1962, a young biologist in Philadelphia produced the first safe, clean cells that made possible the mass-production of vaccines against many common childhood diseases. Two years later, in the midst of a German measles epidemic, his colleague developed the vaccine that would one day effectively wipe out rubella for good.

This vaccine - and others made with those cells - have since protected hundreds of millions of people worldwide, the vast majority of them preschool children. Meredith Wadman's account of this great leap forward in medicine is a fascinating and revelatory read.



ANATOMY: A CUTAWAY LOOK INSIDE THE HUMAN BODY

Anatomy is a gorgeous, large-format book filled with clever cutouts exploring every detail of the organs, systems and senses that make up that most marvellous of machines, the human body. This fact-filled journey is illustrated by Hélène Druvert, the acclaimed creator of the award-winning Paris Up, Up and Away and Mary Poppins Up, Up and Away. Her father, a doctor, has contributed the text, which is perfectly pitched at children of nine and over.



THE PRIVATE LIFE OF PLANTS

The author reveals to us the aspects of plants' lives that seem hidden from view, such as fighting, avoiding or exploiting predators or neighbors, and struggling to find food, increase their territories, reproduce themselves, and establish their place in the sun. Among the most amazing examples, the acacia can communicate with other acacias and repel enemies that might eat their leaves, the orchid can impersonate female wasps to attract males and ensure the spreading of its pollen, the Venus's flytrap can take other organisms captive and consume them. Covering this remarkable range of information with enthusiasm and clarity, Attenborough helps us to look anew at the vegetation on which all life depends and which has an intriguing life of its own. He has created a book sure to please the plant lover and any other reader interested in exploring the natural world.

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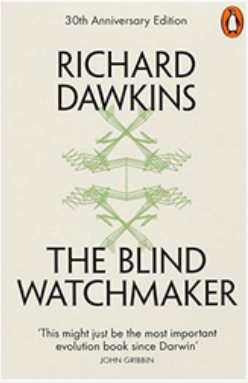

THE BLIND WATCHMKAER

The Blind Watchmaker is the seminal text for understanding evolution today. In the eighteenth century, theologian William Paley developed a famous metaphor for creationism: that of the skilled watchmaker. In The Blind Watchmaker, Richard Dawkins crafts an elegant riposte to show that the complex process of Darwinian natural selection is unconscious and automatic. If natural selection can be said to play the role of a watchmaker in nature, it is a blind one-working without foresight or purpose.

INSECTIPEDIA

Insectpedia introduces you to the wonders of the insect world while inviting you to make discoveries of your own. Featuring dozens of entries on topics ranging from murder hornets and the "insect apocalypse" to pioneering entomologists such as Margaret James Strickland Collins and Douglas Tallamy, this beautifully illustrated, pocket-friendly encyclopedia dispels many common myths about insects while offering new perspectives on the vital relationships we share with these incredible creatures.

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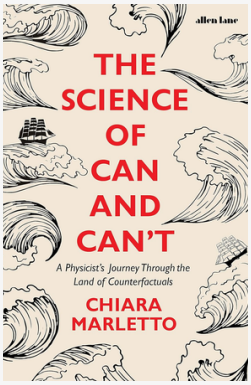


THE SCIENCE OF CAN AND CAN'T: A PHYSICIST'S JOURNEY

There is a vast class of properties, which science has so far neglected, that relate not only to what is true - the actual - but to what could be true: the counterfactual. This is the science of can and can't.

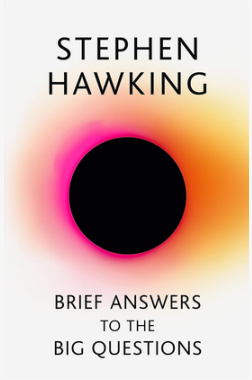
A pioneer in the field, Chiara Marletto explores the extraordinary promise that this revolutionary approach holds for confronting existing technological challenges, from delivering next-generation processors to designing AI. But by contemplating the possible as well as the actual, Marletto goes deeper still, showing how counterfactuals can break down barriers to knowledge and form a more complete, abundant and rewarding picture of the universe itself.

STUFF MATTERS

Everything is made of something...

From the everyday objects in our homes to the most extraordinary new materials that will shape our future, Stuff Matters reveals the inner workings of the man-made world, the miracles of craft, design, engineering and ingenuity that surround us every day.

From the tea-cup to the jet engine, the silicon chip to the paper clip, from the ancient technologies of fabrics and ceramic to today's self-healing metals and bionic implants, this is a book to inspire amazement and delight at mankind's creativity.



BRIEF ANSWERS TO THE BIG QUESTIONS

The world-famous cosmologist and #1 bestselling author of A Brief History of Time leaves us with his final thoughts on the universe's biggest questions in this brilliant posthumous work.

Is there a God?

How did it all begin?

Can we predict the future?

What is inside a black hole?

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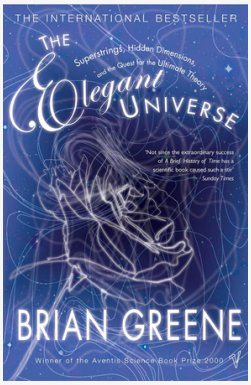
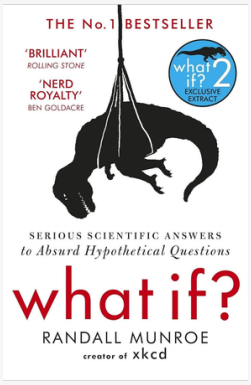


THE ELEGANT UNIVERSE: SUPERSTRINGS, HIDDEN DIMENSIONS, AND THE QUEST FOR THE ULTIMATE THEORY

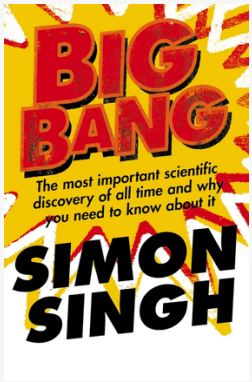
In this international bestseller, Columbia University professor Brian Greene provides, in layman's terms, a comprehensive demystification of string theory. Greene, one of the world's leading string theorists, peels away layers of the unknown, through introducing concepts from quantum mechanics to general relativity, to reveal a universe that consists of eleven dimensions. Accessible and enlightening, Greene's inimitable blend of expert scientific insight and literary ingenuity makes The Elegant Universe an exhilarating read that brings us closer to understanding how our magnificent universe works.



WHAT IF?: SERIOUS SCIENTIFIC ANSWER TO ABSURD HYPOTHETICAL QUESTIONS

From the creator of the wildly popular xkcd.com, hilarious and informative answers to important questions you probably never thought to ask.

Millions visit xkcd.com each week to read Randall Munroe's iconic webcomic. Fans ask him a lot of strange questions: How fast can you hit a speed bump, driving, and live? When (if ever) did the sun go down on the British Empire? When will Facebook contain more profiles of dead people than living? How many humans would a T Rex rampaging through New York need to eat a day?



BIG BANG: THE MOST IMPORTANT SCIENTIFIC DISCOVERY OF ALL TIME

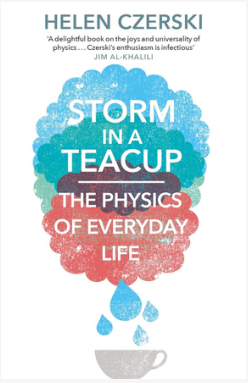
Albert Einstein once said: 'The most incomprehensible thing about the universe is that it is comprehensible.' Simon Singh believes geniuses like Einstein are not the only people able to grasp the physics that govern the universe. We all can.

As well as explaining what the Big Bang theory actually is and why cosmologists believe it is an accurate description of the origins of the universe, this book is also the fascinating story of the scientists who fought against the established idea of an eternal and unchanging universe. Simon Singh, renowned for making difficult ideas much less daunting than they first seem, is the perfect guide for this journey.

RECOMMENDED READING:

Books not available in the LRC will clearly be marked as unavailable. That being said, please remember books can be requested, so, if you like the sound of a book, please speak to our LRC staff.

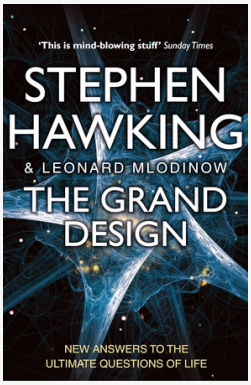
PHYSICS



STORM IN A TEACUP: THE PHYSICS OF EVERYDAY LIFE

Our world is full of patterns. If you pour milk into your tea and give it a stir, you'll see a swirl, a spiral of two fluids, before the two liquids mix completely. The same pattern is found elsewhere too. Look down on the Earth from space, and you'll find similar swirls in the clouds, made where warm air and cold air waltz.

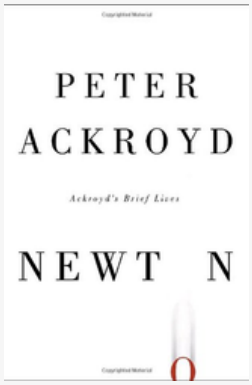
In Storm in a Teacup, Helen Czerski links the little things we see every day with the big world we live in. Each chapter begins with something small - popcorn, coffee stains and refrigerator magnets - and uses it to explain some of the most important science and technology of our time.



THE GRAND DESIGN

When and how did the universe begin? Why are we here? Is the apparent 'grand design' of our universe evidence for a benevolent creator who set things in motion? Or does science offer another explanation?

In The Grand Design, the most recent scientific thinking about the mysteries of the universe is presented in language marked by both brilliance and simplicity. Model dependent realism, the multiverse, the top-down theory of cosmology, and the unified M-theory - all are revealed here.



NEWTON (ACKROYD'S BRIEF LIVES)

A vivid portrait of one of the world's most important and influential scientists examines the contributions of Isaac Newton to the history of science and mathematics, detailing his research on calculus, formulation of the laws of motion and universal gravitation, discovery of some of the principles of light, and fascination with astrology, alchemy, theology, and more. 12,500 first printing.

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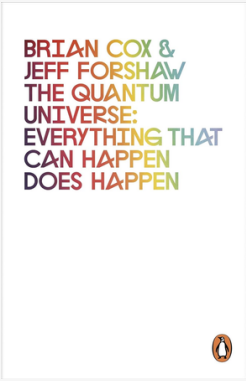
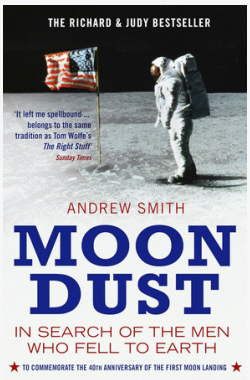
PHYSICS



THE QUANTUM UNIVERSE: EVERYTHING THAT CAN HAPPEN DOES HAPPEN

But just what is quantum physics? How does it help us understand our amazing world? Where does it leave Newton and Einstein? And why, above all, can we be sure that the theory is good?
Here, Brian Cox and Jeff Forshaw give us the real science behind the bizarre behaviour of the atoms and energy that make up the universe, and reveal exactly how everything that can happen, does happen.



MOONDUST: IN SEARCH OF THE MEN WHO FELL TO EARTH

In 1999, Andrew Smith was interviewing Charlie Duke, astronaut and moon walker, for the Sunday Times. During the course of the interview, which took place at Duke's Texan home, the telephone rang and Charlie left the room to answer it. When he returned, some twenty minutes later, he seemed visibly upset. It seemed that he'd just heard that, the previous day, one of his fellow moon walkers, the astronaut Pete Conrad, had died. 'Now there's only nine of us,' he said. Only nine. Which meant that, one day not long from now, there would be none, and when that day came, no one on earth would have known the giddy thrill of gazing back at us from the surface of the moon. The thought shocked Andrew Smith, and still does. Moondust is his attempt to understand why.

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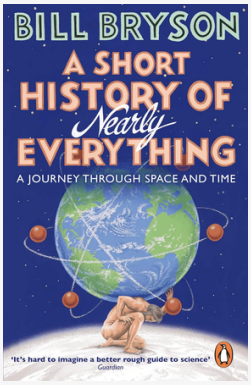
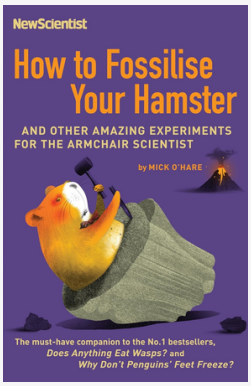
FUN SCIENCE



A SHORT HISTORY OF NEARLY EVERYTHING

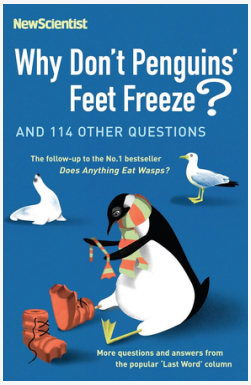
Bill Bryson describes himself as a reluctant traveller, but even when he stays safely at home he can't contain his curiosity about the world around him. A Short History of Nearly Everything is his quest to understand everything that has happened from the Big Bang to the rise of civilization - how we got from there, being nothing at all, to here, being us.

Bill Bryson's challenge is to take subjects that normally bore the pants off most of us, like geology, chemistry and particle physics, and see if there isn't some way to render them comprehensible to people who have never thought they could be interested in science. As a result, A Short History of Nearly Everything reveals the world in a way most of us have never seen it before.



HOW TO FOSSILISE YOUR HAMSTER

How can you measure the speed of light with chocolate and a microwave? Why do yo-yos yo-yo? Why does urine smell so peculiar after eating asparagus (includes helpful recipe)? How long does it take to digest different types of food? What is going on when you drop mentos in to cola? 100 wonderful, intriguing and entertaining scientific experiments which show scientific principles first hand - this is science at its most popular.



WHY DON'T PENGUINS' FEET FREEZE?

Why Don't Penguins' Feet Freeze? is the latest compilation of readers' answers to the questions in the 'Last Word' column of New Scientist, the world's best-selling science weekly. Following the phenomenal success of Does Anything Eat Wasps? - the Christmas 2005 surprise bestseller - this new collection includes recent answers never before published in book form, and also old favourites from the column's early days.

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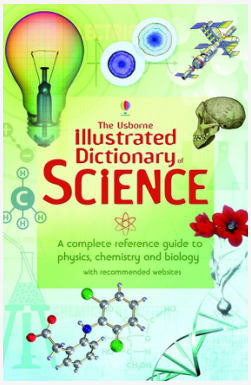
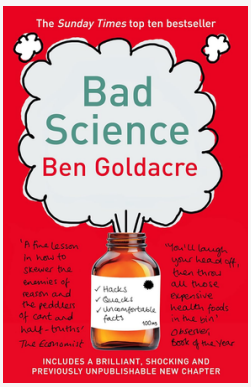


ILLUSTRATED DICTIONARY OF SCIENCE

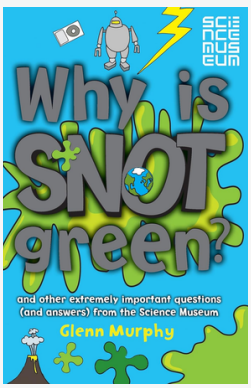
This is a new edition of this popular title, which provides a fantastic reference point for students studying for their SATs and GCSEs. It is split into three sections, each covering the key aspects of the curriculum for Physics, Biology and Chemistry, and including important charts, tables and lists. It is brightly and clearly illustrated.



BAD SCIENCE

Since 2003 Dr Ben Goldacre has been exposing dodgy medical data in his popular Guardian column. In this eye-opening book he takes on the MMR hoax and misleading cosmetics ads, acupuncture and homeopathy, vitamins and mankind's vexed relationship with all manner of 'toxins'. Along the way, the self-confessed 'Johnny Ball cum Witchfinder General' performs a successful detox on a Barbie doll, sees his dead cat become a certified nutritionist and probes the supposed medical qualifications of 'Dr' Gillian McKeith.

Full spleen and satire, Ben Goldacre takes us on a hilarious, invigorating and ultimately alarming journey through the bad science we are fed daily by hacks and quacks.



WHY IS SNOT GREEN?

Why is snot is green? Do rabbits fart? What is space made of? Where does all the water go at low tide? Can animals talk? What are scabs for? Will computers ever be cleverer than people? Discover the answers to these and an awful lot of other brilliant questions frequently asked at the Science Museum in this wonderfully funny and informative book. It is divided into five sections which cover everything from the Big Bang to bodily functions and cool gadgets: Lost in Space; The Angry Planet; Animal Answers; Being Human; and Fantastic Futures. Two million people visit the Science Museum every year to see the extraordinary selection of exhibits and objects exploring the past, present and future of human invention and discovery. We are delighted to be publishing this brilliant book in association with the museum, where children of all ages can learn about science in a fresh, fun and interactive way.

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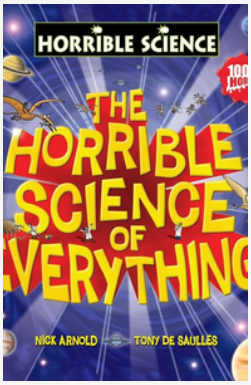
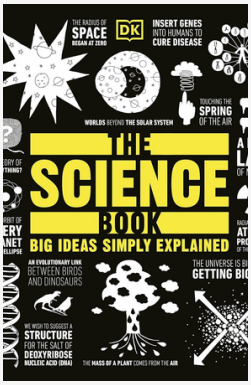


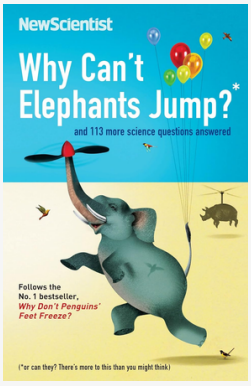
HORRIBLE SCIENCE OF EVERYTHING

Taking a journey from the very small, to the very big, readers are taken on a tour of everything in science from the smallest thing ever to the horribly huge universe. And it's all in full colour and in new flexi-bound paperback format!



THE SCIENCE BOOK: BIG IDEAS SIMPLY EXPLAINED

Part of the fascinating Big Ideas series, this book tackles tricky topics and themes in a simple and easy to follow format. Learn about Science in this overview guide to the subject, brilliant for beginners looking to learn and experts wishing to refresh their knowledge alike! The Science Book brings a fresh and vibrant take on the topic through eye-catching graphics and diagrams to immerse yourself in.



WHY CAN'T ELEPHANTS JUMP?

This is popular science at its most absorbing and enjoyable. That is why the previous titles in the New Scientist series have been international bestsellers and sold over two million copies between them. Like Does Anything Eat Wasps? (2005), Why Don't Penguins' Feet Freeze? (2006) and Do Polar Bears Get Lonely? (2008), this is another wonderful collection of wise, witty and often surprising answers to a staggering range of science questions, from 'why is frozen milk yellow?' to 'what's the storage capacity of the human brain in gigabytes?'.

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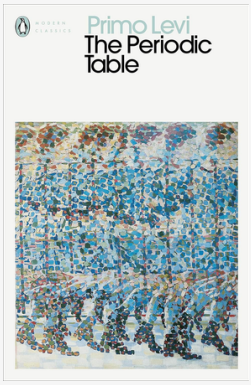
DEEPER READING

13 THINGS THAT DON'T MAKE SENSE:

Science starts to get interesting when things don't make sense.

Even today there are experimental results that the most brilliant scientists can neither explain nor dismiss. In the past, similar anomalies have revolutionised our world: in the sixteenth century, a set of celestial irregularities led Copernicus to realise that the Earth goes around the sun and not the reverse. In 13 Things That Don't Make Sense Michael Brooks meets thirteen modern-day anomalies that may become tomorrow's breakthroughs.

Is ninety six percent of the universe missing? If no study has ever been able to definitively show that the placebo effect works, why has it become a pillar of medical science? Was the 1977 signal from outer space a transmission from an alien civilization? Spanning fields from chemistry to cosmology, psychology to physics, Michael Brooks thrillingly captures the excitement and controversy of the scientific unknown.



THE PERIODIC TABLE

Primo Levi's The Periodic Table is a collection of short stories that elegantly interlace the author's experiences in Fascist Italy, and later in Auschwitz, with his passion for scientific knowledge and discovery. This Penguin Modern Classics edition is translated by Raymond Rosenthal with an essay on Primo Levi by Philip Roth.

A chemist by training, Primo Levi became one of the supreme witnesses to twentieth-century atrocity. In these haunting reflections inspired by the elements of the periodic table, he ranges from young love to political savagery; from the inert gas argon - and 'inert' relatives like the uncle who stayed in bed for twenty-two years - to life-giving carbon. 'Iron' honours the mountain-climbing resistance hero who put iron in Levi's student soul, 'Cerium' recalls the improvised cigarette lighters which saved his life in Auschwitz, while 'Vanadium' describes an eerie post-war correspondence with the man who had been his 'boss' there.

THINGS TO DO

The following articles, resources and exhibitions are free to access, and recommended for anyone wanting to independently explore Science.

- Subscribe to the RSC Chemnet for current developments in Chemistry and Science, as well as loads of university information and seminars.
- http://www.rsc.org/Membership/Networking/ChemNet/
- Attend lectures and seminars on topics that interest you in Chemistry at UCL.
- www.chem.ucl.ac.uk (News and Events)
- Go spend a day at the Science Museum – it's free! Keep an eye out for special exhibitions.
- www.sciencemuseum.org.uk
- Watch the collection of Agatha Christie Collection DVDs

HOME SCIENCE EXPERIMENTS

Check out these links for further info

Cool Science Tricks

Youtube Science Channels

Ask a Scientist

IFL Science