Science

Whatever your age, these recommended reads will complement your study of Science and help you to enjoy wider elements of maths. Ask your Science teacher what they'd recommend for you!

Book	Author	Brief Description	Front Cover
A Short History of Nearly Everything	Bill Bryson	A light-hearted journey through the history of important scientific discoveries	BILL BRYSON A SHORT HISTORY OF Nearly EVERYTHING A JOURNEY THROUGH SPACE AND TIME 181's hard to imagine a bester rough guide to science* Consider
King Solomon's Ring	Konrad Lorenz	This is a collection of observations of different animals and their behaviour, excellent for anyone wanting to go into zoology or veterinary medicine.	Lorenz King Solemon's Ring
Horrible sciences, microscopic monsters	Nick Arnold	A funny way to imagine the things you see under the microscope	HORRIBLE SCIENCE OROGO OROGO Nick Arneld and Tony De Skulles

Kay's Anatomy	Adam Kay	An illustrated and humorous guide to the human body.	ADAM KAY ADAM KAY EMPORATO IN HERRY PARTE KAY'S ANATOMY A COMPLETE HIGH HUMAN BODY TOTALIT BEILLIARTY
Why Does Asparagus Make Your Pee Smell?	- Andy Brunning	Guaranteed to satisfy curious minds. And did you know that nutmeg can make you hallucinate? Prepare to be astounded by chemical breakdown like never before.	Why Does Asparagus Make Your Pee Smell? Fascinating Food Trivia Explained with Science with Science
Women in Science: 50 Fearless Pioneers who Changed the World	Rachel Ignotofsky	The extraordinary women profiled include well-known figures like the physicist and chemist Marie Curie, as well as lesser-known pioneers such as Katherine Johnson, the African-American mathematician who calculated the trajectory of the Apollo 11 mission to the moon.	WOMEN IN SCIENCE THE STATE OF THE WORLD WHO CHANGED THE WORLD WHO
Hidden Figures	Margot Lee Shetterly	Dorothy Vaughan, Mary Jackson, Katherine Johnson, and Christine Darden were good at mathreally good. They participated in some of NASA's greatest successes, like providing the calculations for America's first journeys into space.	HIDDEN FIGURES The form allock will be a force for a force force for a force force for a force

		And they did so during a time when being black and a woman limited what they could do. But they worked hard. They persisted. And they used their genius minds to change the world.	
The Hitchhikers Guide to the Galaxy	Douglas Adams	It's an ordinary Thursday lunchtime for Arthur Dent until his house gets demolished. The Earth follows shortly afterwards to make way for a new hyperspace express route, and his best friend has just announced that he's an alien. At this moment, they're hurtling through space with nothing but their towels and an innocuous-looking book inscribed, in large friendly letters, with the words: DON'T PANIC. The weekend has only just begun	THE HITCH-HIKER'S GUIDE THE GAL. AXY
The Science Book	DK Books	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"	SOLENGE SOLENGE AND SOLENGE

and eye-catching artworks

Key Stage 4

Book	Author	Brief Description	Front Cover
Frankenstein	Mary Shelley	The first science fiction novel. If you push the limits of science and morality, what could possibly go wrong?	FRANKENSTEIN MARY SHELLEY
The Martian: Young Readers Edition	Andy Weir	Six days ago, astronaut Mark Watney became one of the first people to walk on Mars. Now, he's sure he'll be the first person to die there.	THE MARTIAN THE BOOK BEING THE MAIOR MOTION PICTURE ANDY WEIR
The Family That Couldn't Sleep	D.T. Max	This is a medical mystery about a noble venetian family. The book is based on interviews with the family and research into the family disorder, good introduction to the concept of prions.	The Family That Couldn't Sleep D.T. MAX
What If?: Serious Scientific Answer to Absurd Hypothetical Questions: Serious Scientific Answers to Absurd Hypothetical Questions	Randall Munroe	Serious scientific answers to absurd hypothetical questions	THE UK AND US No.1 BESTSELLER "NERD ROYALTY" RINGOLDICIS SECIOES SCIENTIFIC ANNEXS to About Hypothetical Questions What if? RANDALL MUNROE MAN SECONDARY EDITION

How To: Absurd Scientific Advice for Common Real-World Problems from Randall Munroe	Randall Munroe	It's full of highly impractical advice for everything from landing a plane to digging a hole.	ASSUED SCIENTIFIC ADVICE for Common Real-World Problems NOW TO RANDALL MUNROE construct at Xkcd
The Oxford Book of Modern Science Writing	Selected and introduced by Richard Dawkins	The Oxford Book of Modern Science Writing is a celebration of the finest writing by scientists for a wider audience - revealing that many of the best scientists have displayed as much imagination and skill with the pen as they have in the laboratory.	RICHARD DAWKINS THE OXFORD BOOK OF MODERN SCIENCE WRITING PROPERTY OF THE OXFORD BOOK OF MODERN SCIENCE WRITING THE OXFORD BOOK OF WRITING THE O
The Periodic Table	Primo Levi	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.	The Periodic Table
Do No Harm: Stories of Life, Death and Brain Surgery	Henry Marsh	DO NO HARM offers an unforgettable insight into the highs and lows of a life dedicated to operating on the human brain, in all its exquisite complexity.	Painfully beneat a superb achievement I an McEwan DO Stories of Life, Death NO and Brain Surgery HARM "Startling and moving enthralling" Guardian HENRY MARSH

Why Do Penguins Feet Freeze?	New Scientist	Ever wondered why we have fingerprints? Or whether bumblebees really defy the laws of physics when they fly? And why are eggs eggshaped? And dogs' noses black? Why do our eyes water when we cut onions? Why doesn't superglue stick to the inside of its tube?	NewScientist WHY DON'T PENGUINS FEET FREEZE? and 114 Other Questions
The Secret Science of Superheroes	Mark Lorch and Andy Miah	The concept of the superhero has permeated our culture. They fascinate their fans with their incredible superhuman abilities and impressive technology. But do you ever wonder if any of it is plausible or rooted in fact?	SCIENCE SIPERHEROES THE SECRET SERVICES AND MORE
The Mould in Dr Florey's Coat: The Remarkable True Story of the Penicillin Miracle	Eric Lax	Many people know that in 1928 Alexander Fleming discovered penicillin's antibiotic potential while examining a stray mould that had bloomed in a dish of bacteria in his London laboratory. But few realise that Fleming worked only fitfully on penicillin until 1935, and that he is merely one character in the remarkable story of the antibiotic's development as a drug.	Administration of the second s

Key Stage 5

Book	Author	Brief Description	Front Cover
Bad Science	Ben Goldacre	Debunking some common myths and exploring how poor scientific practice leads to public panic and misunderstanding	Bad Science Ben Goldacre // Marka / M
Junk DNA	Nessa Carey	This is a follow on book from the epigenetics revolution, this time Nessa focusses on the junk regions of our DNA and their significance for disease, aging and viral infections. Very accessible if you want to know more about genetics at a higher level.	Author of the Epigenetics Excolation NESSA CAREY A conting edge, authorities golds to the reports changing. A conting edge, activation golds to the reports changing. JUNK S A Journey Through the Dark Matter of the Genome
Sapiens: A Brief History of Humankind	Yuval Noah Harari	Explores the human species – who we are, how we got here and where we're going.	Sapiens A Brief History of Humankind
What is Life?: How Chemistry Becomes Biology	Addy Pross	Seventy years ago, Erwin Schrödinger posed a profound question: 'What is life, and how did it emerge from non-life?' This problem has puzzled biologists and physical scientists ever since.	What is Life? How Chemistry Becomes Biology

Y: The Descent of Men	Steve Jones	What is the point of being a man? For a brief and essential instant he is a donor of DNA; but outside that moment his role is hard to understand.	Y: THE DESCENT OF MEN Designation of the model recovery ALMOST LIKE A WINDLE Y: THE DESCENT OF MEN Designation was metabolic and the state of the
The Lives of a Cell: Notes of a Biology Watcher	Lewis Thomas	Elegant, suggestive, and clarifying, Lewis Thomas's profoundly humane vision explores the world around us and examines the complex interdependence of all things.	The Lives of a Leuris of Annual Conference of The Lives of a Cell The L
The Man Who Mistook His Wife For A Hat	Oliver Sacks	In this extraordinary book, Dr. Oliver Sacks recounts the stories of patients struggling to adapt to often bizarre worlds of neurological disorder.	OLIVER SACKS The Man With Mattook His Wife for a Hea With an immediation by Will Soft
What a Plant Knows	Daniel Chamovitz	How does a Venus flytrap know when to snap shut? Can an orchid get jet lag? Does a tomato plant feel pain when you pluck a fruit from its vines? And does your favourite fern care whether you play Bach or the Beatles?	Daniel Chamovitz WHAT APLANT KNOWS A Faild Garderio fire Senses of your Gorden - and Beyond

Periodic Tales Hugh Aldersey-Here you'll meet iron Williams that rains from the heavens. You'll learn how lead can tell your future while zinc may one day line your coffin. You'll discover what connects the bones in your body with the Whitehouse in Washington, the glow of a streetlamp with the salt on your dinner table. The Disappearing Sam Kean The fascinating tales Spoon 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, SAM KEAN medicine and the lives of the (frequently) mad scientists who discovered them. Oliver Sacks **Uncle Tungsten** Oliver Sacks evokes, OLIVER with warmth and wit, his upbringing in wartime England. He tells of the large science-steeped family who fostered his early fascination with chemistry. There follow his years at boarding school where, though unhappy, he developed the intellectual curiosity that would shape his later life. And we hear of his return to London, an

emotionally bereft ten-year-old who found solace in his passion for learning.

The Shocking History John Emsley Born of the age of of Phosphorus alchemy and harbouring the kind of mysterious influence that alchemists sought, phosphorus brought wealth to a few but misery to many. For over 300 years, phosphorus JOHN EMSLE maimed, killed, polluted and burned sometimes on a terrifying scale. Yet, such were its perceived benefits that doctors prescribed it, every home contained it and whole industries were dedicated to its manufacture **Physics of the Future** We all wish we could Michio Kaku predict the future, but most of us don't know enough about the science that makes it possible. That's why Michio Kaku decided to talk to the people who really know - the visionaries who are already inventing the future in their labs. Physics of the Michio Kaku Michio Kaku, MICHIO KAKU **Impossible** bestselling science author and one of the world's most acclaimed physicists, looks at the technologies of the future and explains what's just around the corner, what we might have to wait a few millennia to get our hands on and how surprisingly little of it

is truly impossible.

Parallel Worlds	Michio Kaku	Imagine a future where we are not alone - where our universe is just one of countless parallel worlds, some strangely familiar, some almost unimaginable.	PARALLEL WORLDS THE SCIENCE OF ALTERNATIVE UNIVERSES AND OUR FUTUSE IN THE COSMOS "This book is absolutely impossible to put down mind-olowing" Impossible to put down mind-olowing to the common of the c
Six Easy Pieces	Richard Feynman	Feynman introduces the reader to the following topics: atoms, basic physics, energy, gravitation, quantum mechanics, and the relationship of physics to other topics.	RICHARD P. FEYNMAN Six Easy Pieces Essentials of Physics Explained by Its Most Brilliant Teacher
Surely You're Joking Mr Feynman	Ralph Leighton	Over a period of years, Feynman's conversations with his friend Ralph Leighton were first taped and then set down as they appear here, little changed from their spoken form, giving a wise, funny, passionate and totally honest self-portrait of one of the greatest men of our age.	SURELY YOU'RE JOKING FEYNMAN ADVENTURES WE A CURIOUS CHARACTER RICHARD P. FEYNMAN
The Pleasure of Finding Things Out	Freeman Dyson and Richard Feynman	A magnificent treasury of the best short works of Richard P. Feynman, from interviews and speeches to lectures and printed articles.	RICHARD P. FEYNMAN The Pleasure of Finding Things Out The Best Short Works of Richard P. Feynman Fraceway as Fastana Draws

Six Not-So-Easy Pieces	Matthew Sands, Richard Feynman	Trying to understand important concepts like relativity? You will find this fascinating.	RICHARD P. FEYNMAN Six Not-So-Easy Pieces Einstein's Relativity, Symmetry, and Space-Time
The Elegant Universe	Brian Greene	In layman's terms, a comprehensive demystification of string theory.	BRIAN GREENE
The Fabric of the Cosmos	Brian Greene	What is reality? Could we exist without space and time? Can we travel to the past? What are the limits of the universe?	The sea Harding only better To Time Brian Greene The Fabric of the Cosmos Magnifican in might sheet about the spine
How to Teach Quantum Physics to Your Dog	Chad Orzel	Emmy is no ordinary dog. When adopted from the shelter by physics professor Chad Orzel, she becomes immediately fascinated by his work. Could she use quantum tunnelling to get through the neighbour's fence? How about diffracting round a tree to chase squirrels? Or using virtual particles to catch bunnies made of cheese?	HOW TO TEACH QUANTUM PHYSICS PETT TO YOUR DOG AND