

SCIENCE

RECOMMENDED READING LIST FOR KEY STAGE 3 POTENTIAL HIGH ACHIEVER

Research has shown that those who regularly find themselves engrossed in a book have better general knowledge, improved memory skills (the result of better focus and concentration), stronger analytical skills and lower levels of stress. For many, reading is the chance to explore genres or topics of particular interest to quench a thirst for knowledge.

The following book suggestions from the Science Department will enable students to push their understanding beyond the content covered in lessons and continue to enthuse the next generation of scientists and inventors.

AUTOBIOGRAPHY

Bear Grylls, *Mud, Sweat and Tears* - The autobiography of the famous adventurer/risktaker.

Ben Fogel, *Accidental Adventurer* - This is a book about defying expectations, conquering fears, battling laziness and, just occasionally, winning.

Steve & Terri Irwin, *The Crocodile Hunter: The Incredible Life and Adventures of Steve and Terri Irwin* - A book that looks at the story behind Australia's most famous crocodile hunter.

HISTORY OF SCIENCE

Chris van Tulleken & Xand van Tulleken, *Medical Milestones and Crazy Cures* - Look at the strange ways that medicine and science have developed over time.

Jeanne Bendick, *Archimedes and the Door of Science* - Explore how Archimedes ideas helped create the pathway for modern science.

Jeanne Bendick, *Galen and the Gateway to Medicine* - Read about Galen's work with Roman gladiators and how this helped to shape his understanding of human physiology.

Jennifer Berne & Vladimir Radunsky, *On a Beam of Light: A Story of Albert Einstein* - Join the authors as they explore Einstein's journey from child to adult and the importance of thinking big.

John Hamilton, *The Space Race* - Explore the competition between two nations trying to conquer space.

Nick Arnold, *Horrible Science Collection* - A bumper collection of 20 books from the creator of Horrible Histories shares more disgusting facts, gruesome revelations and gripping science.

NON-FICTION

Clive Gifford, *Ground Control to Major Tim* - Discover some of the ground-breaking experiments conducted on the International Space Station by the first British astronaut to live and work there.

Chris van Tulleken & Xand van Tulleken, *Your Brilliant Body (Operation Ouch!)* - Twins, Chris and Xand, explore the workings of the body and fascinating facts that will leave you amazed!

Dara O'Briain, *Beyond the Sky and the Universe* - Take a humorous look at our Universe.

David Attenborough, *Life on Earth* - The illustrated book that accompanies the Life on Earth TV series that influences a new generation of scientists.

DK (Dorling Kindersley), *The Science Book: Big Ideas Simply Explained* - Explores more than 80 of the world's most scientific theories and big ideas across the fields of physics, chemistry, biology, astronomy, geology and maths.

DK (Dorling Kindersley), *The Periodic Table Book: A Visual Encyclopedia of the Elements* - Discover fascinating facts about the elements and the way they were discovered.

Neil deGrasse Tyson, *Astrophysics for Young People in a Hurry* - Learn just how mysterious our universe is.

Richard Hammand, *All About Physics (Big Questions)* - An exciting look at how Science affects everything.

Robert Winston, *All About Biology (Big Questions)* - An exciting look at how Science affects everything and why organisms can live on our 'Goldilocks planet'.

Robert Winston, *All About Chemistry (Big Questions)* - An exciting look at how Science affects everything and the explosive world of atoms.

Sam Kean, *The Disappearing Spoon* - Understand the passion, adventure, betrayal and obsession behind the discovery of elements.

Steve Backshall, *Deadly Detectives: Top Tips to Track Wildlife* - Steve tells young trackers everything they need to know about the origins of tracking, what you need to become a tracker and how to do it, whether the wild world is your own back garden, ancient woodlands, the riverside or coast.

SCIENCE FICTION

David Thorpe, *Hybrids* - A thrilling sci-fi novel set in the believable near future.

Douglas Adams, *The Hitchhiker's Guide to the Galaxy* - Arthur Dent is upset because the council has demolished his house to make way for a bypass. Unfortunately, the earth is to be demolished to make way for a hyperspace bypass.

HG Wells, *War of the Worlds* - The Martians invade Earth.

Jules Verne, *Journey to the Centre of the Earth* - Explorers climb down an extinct volcano and into the centre of the earth.

Malorie Blackman, *Pig-Heart Boy* - Explores heart transplant, animal rights, life and death.

Nicola Morgan, *Flesh Market* - Set in the dark streets of 19th Century Edinburgh where the body-snatchers Burke and Hare stalk the homeless street urchins.

Patrick Ness, *The Knife of Never Letting Go* - Todd Hewitt is the last boy in Prentisstown, a place where everyone can hear other people's thoughts in a constant Noise. Todd finds a gap in the Noise.

Philip Reeve, *Larklight Trilogy* - Set in an alternative Victorian-era universe. The nations struggle over who gets access to space technology to travel the solar system.

Scott Westerfield, *Uglies* - In the future plastic surgery is taken to the extreme. Those who reject the process are known as "Uglies".

Terry Pratchett, *The Discworld Series (starting with 'The Colour of Magic')* - Comic fantasy novels set in a flat world balanced on the back of four elephants who are standing on a giant turtle. 0008172145