



# Biology



Super Curriculum

# Hinchingbrooke Sixth Form

*Excellence in Everything*

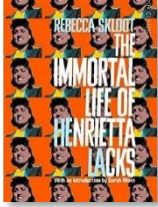


# Biology

## Reading

### The immortal life of Henrietta Lacks

by Rebecca Skloot

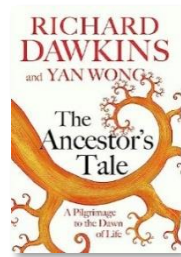


A story of the life, and afterlife, of one woman who changed the medical world forever. Balancing the beauty and drama of scientific discovery with dark questions about who owns the stuff our bodies are made of, *The Immortal Life of*

*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 Ancestor's Tale

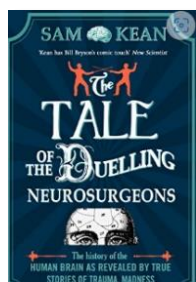
by Richard Dawkins and Yan Wong



This book will take you on an exhilarating reverse journey through evolution, from present-day humans back to the microbial beginnings of life. It is a journey happily interrupted by meetings of fellow modern animals (as well as plants, fungi and bacteria) similarly tracing their evolutionary path back through history. As each evolutionary pilgrim tells their tale, Dawkins and Wong shed light on topics such as speciation, sexual selection and extinction.

### The Tale of the Duelling Neurosurgeons

by Sam Kean



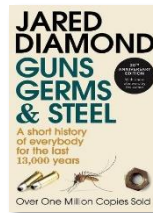
This book explores the history and science of the human brain through stories of neurological curiosities. The book covers a range of topics, including phantom limbs, cannibalism, Siamese brains, viruses that eat patients' memories, and blind people who see through their tongues. The book also delves into some of the strangest psychological case studies in history. The book is a fascinating read for anyone interested in neuroscience.

### Silent Spring

by Rachel Carson



This book details the potentially harmful effects of pesticides on the environment, particularly those pesticides, including DDT, that were being administered via aerial spraying in an attempt to control insect populations on a massive scale.



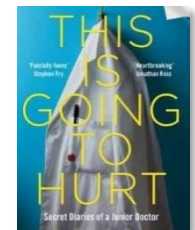
### Guns, Germs and Steel

by Jared Diamond

Presenting the case that Geography and biogeography, not race, moulded the contrasting fates of Europeans, Asians, Native Americans, sub-Saharan Africans, and aboriginal Australians. An ambitious synthesis of history, biology, ecology and linguistics; a ground-breaking and humane work of popular science.

### This is going to Hurt

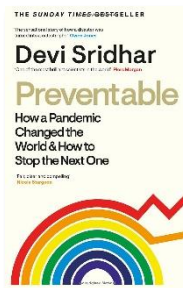
by Adam Kay



A funny, moving and insightful celebration of the everyday heroes of our NHS. Kay reveals the realities of working for the NHS with visceral honesty but also with humour, never losing sight of the huge significance of the work itself and those profoundly rewarding moments of truly-deserved gratitude from the patients.

### Preventable (how a pandemic changed the world and how to stop the next one)

by Devi Sridhar



A definitive account of the Covid-19 pandemic. This book approaches the public health crisis from medical, political and economic standpoints to craft a compelling narrative unafraid to highlight incompetence or inequality.



# Biology

## Writing Tasks

### Oxford Science Writing Competition

Enter the annual [Oxford Science Writing Competition](#)

### Article

Write an article on the subject of your choice, suitable for publication in a review journal.



# Biology

## Listening Tasks

### Imaginary World

[Imaginary worlds podcast - https://podcasts.apple.com/us/podcast/imaginary-worlds/id916273527](https://podcasts.apple.com/us/podcast/imaginary-worlds/id916273527)

Imaginary Worlds sounds like what would happen if NPR went to ComicCon and decided that's all they ever wanted to cover. Host Eric Molinsky uses his skills to create thoughtful, sound-rich episodes about science fiction, fantasy, and other genres of speculative fiction.

### Point of Discovery

[Point of discovery podcast - https://podcasts.apple.com/us/podcast/point-of-discovery/id1036884430?mt=2](https://podcasts.apple.com/us/podcast/point-of-discovery/id1036884430?mt=2)

Behind every scientific discovery is a scientist (or 12) and a story. "Point of Discovery" takes you on a journey beyond WHAT we know to HOW we know it. Along the way, listeners will meet the sometimes quirky, always passionate people.



# Biology

## Research Tasks

### Imperial College, London

Visit [Imperial College](#) for details of workshops and work experience opportunities.  
Keep up to date by signing up to the [Outreach newsletter](#)



# Biology

## Watching Tasks

### Fantastic Fungi

#### [Fantastic Fungi](#)

Delve into the magical world of fungi, from mushrooms that clear oil spills to underground fungal networks that help trees communicate.

### My Octopus Teacher

#### [My Octopus Teacher](#)

An incredible true story about a man and his quest to befriend an octopus. A filmmaker forges an unusual friendship with an octopus living in a South African kelp forest, learning as the animal shares the mysteries of her world.

### Erin Brockovich

#### [Erin Brockovich](#)

A true story, Erin discovers some legal files that don't add up. On investigation she discovers an injustice, and decides, against the odds, to take on the bad guys on behalf of a poor and very ill community in a small town.



# Biology

## Trips and Visits

### Eden Project

Visit the [Eden Project](#) in Cornwall and rediscover the natural world as you've never experienced it before.

### Sign Up

Sign up for the [Royal Institution Christmas Lectures](#) in London.



# Biology

## Student Led Tasks

### Join

Join the [Royal Society for Biology](#) and take a look at their specially tailored content for students.

### Join

Interested in [becoming a medic](#)? Take a look at this website for information on volunteering and exams.





# Biology

## Creative Tasks

### A Tour

Create a virtual tour of the immune system.

### Create a shrimp

Create your own [Brine shrimp](#) ecosystem.