

Biology A Level

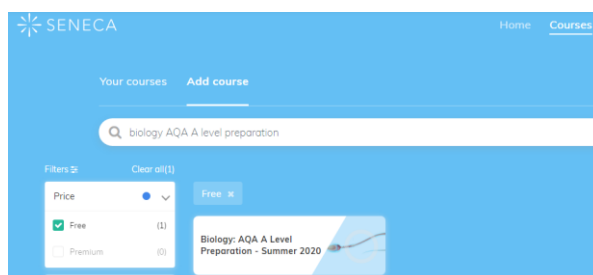
Progression to A Level Biology at Hereford Sixth Form College.

Exam board AQA

To help you prepare for the demands of A level Biology the following resources will be invaluable:

Seneca learning: AQA A-level preparation

If you have use Seneca Learning for any of your GCSE subjects, then you can simply search for the following course.



...or click on the link below:

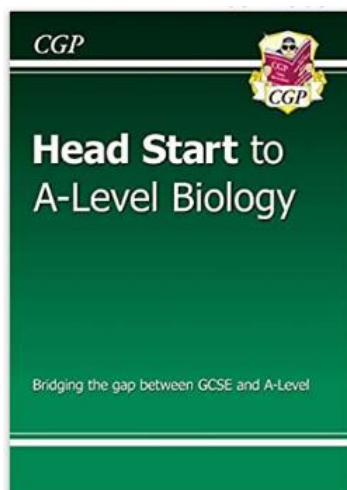
<https://app.senecalearning.com/dashboard/courses/add?Price=Free&text=biology+AQA+Alevel+preparation>

This will refresh your knowledge gained during your GCSE biology Course and will also introduce you to some of the A-level topics.

If you do not have an account, you can enrol for free – see the link below:

<https://senecalearning.com/en-GB/>

Head Start to A Level Biology



Free via Amazon Kindle app

This fantastic Head Start book from CGP is the ideal way to bridge the gap between GCSE and A Level Biology. It recaps all the crucial topics you'll need to remember from GCSE, with crystal-clear study notes and examples, plus practice questions to test your understanding. We've also included introductions to some of the key topics you'll meet at A-Level. It's the perfect way to hit the ground running at the start of the course, whichever exam board you're studying!

Work your way through the booklet answering the questions at the bottom of each page (answers are in the back on the book). This book covers most of the topics covered in Year 1 of the course and will prepare you well for studying A Level Biology next year.

Where to find this book

This book is currently free on Amazon in Kindle Format:

https://www.amazon.co.uk/dp/B00VE2NIOI/ref=cm_sw_em_r_mt_dp_U_E8YGEbAR6FE5E

You can download a free kindle reading app from the app store on your phone or via the windows store to read it on your computer.

Myheplus.com - a website run by Cambridge University

<https://www.myheplus.com/post-16/subjects/biology>

If you look at the Biology page, there are several interesting topic areas where you can complete activities to learn more about Stem cells, different aspects of disease, Fungi etc.

Careers in Biology

https://www.rsb.org.uk/images/pdf/Student_Biology_Careers_Resource_Guide.pdf

https://www.rsb.org.uk/images/Spotlight_on_the_Life_Sciences_-_A_Guide_to_Biology_Careers.pdf

<https://www.rsb.org.uk/careers-and-cpd/careers/career-resources/resources-for-students>

<http://intobiology.org.uk/category/next-steps/>

Broaden your understanding read, watch & listen

Watch **TED talks**, take a **MOOC**, read a **popular science book**

TED talks <https://www.ted.com/talks?sort=relevance&topics%5B%5D=Science&q=Biology>

- not much commitment needed just watch and listen for 20-30 mins

Coursera <https://www.coursera.org/search?query=biology&>

- online courses that require a couple of hours per week for 6 weeks
- more intensive but will keep you busy
- develops academic study skills
- something to write about on your Uni/job/apprenticeship applications
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FutureLearn <https://www.futurelearn.com/search?q=Biology>

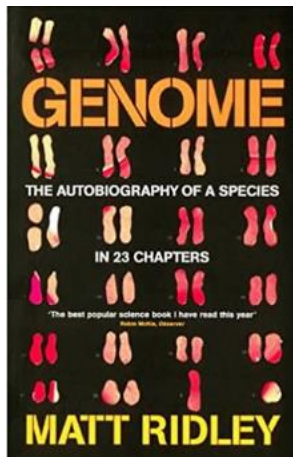
- similar to the course above

iPlayer:

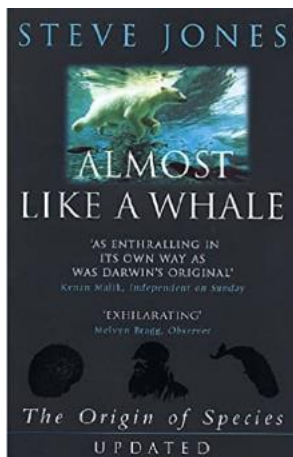
iPlayer has many 'Science and nature' documentaries, such as the Blue Planet, that can be easily accessed. Follow the link below:

<https://www.bbc.co.uk/iplayer/categories/science-and-nature/featured>

Popular Science Books

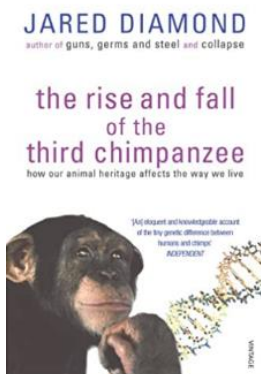


The genome is our 100,000 or so genes. The genome is the collective recipe for the building and running of the human body. These 100,000 genes are sited across 23 pairs of chromosomes. Genome, a book of about 100,000 words, is divided into 23 chapters, a chapter for each chromosome. The first chromosome, for example, contains our oldest genes, genes which we have in common with plants. By looking at our genes we can see the story of our evolution, what makes us individual, how our sexuality is determined, how we acquire language, why we are vulnerable to certain diseases, how mind has arisen.

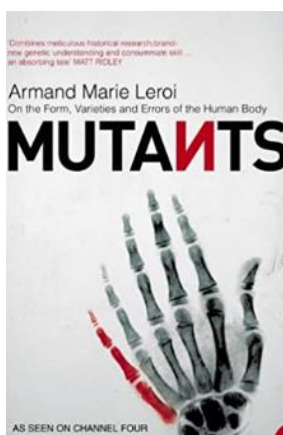


Steve Jones takes on the challenge of going back to the book of the millennium, Charles Darwin's *The Origin of Species*. Before *The Origin*, biology was a set of unconnected facts. Darwin made it into a science, linked by the theory of evolution, the grammar of the living world. It reveals ties between cancer and the genetics of fish, between brewing and inherited disease, between the sex lives of crocodiles and the politics of Brazil.

From AIDS to dinosaurs, from conservation to cloned sheep, bursting with anecdotes, jokes and irresistible facts, *Almost Like a Whale* is a popular account of the science that makes biology make sense. It will catch the millennial mood and tell all those for whom Darwin is merely a familiar name what he really meant.



More than 98 percent of human genes are shared with two species of chimpanzee. The 'third' chimpanzee is man. Jared Diamond surveys out life-cycle, culture, sexuality and destructive urges both towards ourselves and the planet to explore the ways in which we are uniquely human yet still influenced by our animal origins.



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 of 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?

Armand Marie Leroi takes us to the extremes of human mutation – from the grotesque to the beautiful, and often both at the same time – to explain how we become what we are. Through the tales of long-lived Croatian dwarves, ostrich-footed Wadoma tribesmen, sex-changing French convent girls, and many more wonders of human development.