

Biology Resources for Schools

Resources for students

Key stage	Resource
	Additional Reading
KS5	<p>From Cambridge University Reading List for Natural Sciences:</p> <p>Biology of cells:</p> <ul style="list-style-type: none"> ▪ How we live and why we die: the secret lives of cells by Lewis Wolpert (Faber and Faber Paperback) ▪ Essential Cell Biology by Alberts, et al (2014) 6th Edition Garland <p>Evolution and behaviour:</p> <ul style="list-style-type: none"> • The Animal Kingdom: A very short introduction by Holland, P., OUP 2011 • The Ancestor's Tale: A Pilgrimage to the Dawn of Life by Dawkins, R & Yang, W. Weidenfield & Nicholson (2016) • Endless Forms Most Beautiful by Carroll, S Quercus (2005)
sKS5	<p>Popular Science books recommended by Biology Undergraduates:</p> <ul style="list-style-type: none"> • Why Evolution is True by Jerry A. Coyne • Bad Science by Ben Goldacre- discusses statistics and the use of evidence in science and the media • The Diversity of Life by E. O. Wilson • Guns, Germs and Steel by Jared Diamond-discusses the effects of Geography and Biology on the success of global civilisations. Chapter 9 should be of particular interest to biologists.
KS5	Staircase 12 - Reading suggestions and Resources from current undergraduates
	Websites

KS2-5	<p>Explore - explore some of the big questions that are relevant to us all such as:</p> <ul style="list-style-type: none"> • Could we end disease? • Can you choose to be healthy? • Are humans more important than other animals? • Is it OK to clone a human being?
KS1-5	STEM - a range of separate biology and cross curricular science activities for students of all ages with a specific section on home and family learning.
KS2	Oxford Sparks Science activities for KS2. Just Imagination booklet is designed for parents to carry out activities with their children.
KS2-5	Oxford Sparks Science - podcasts/videos/teaching resources, articles, activities/competitions materials
KSS3-5	Oxford University Natural History Museum virtual tour
KS2-4	Science Kids - experiments and free games.
KS2-3	Teaching Ideas - free science resources for KS2-3
KS2-4	Purpose games - educational games related to specific subjects and topics, e.g. quiz about the heart .
KS3-5	OUP Science resources
KS4/5	JCS online home learning resources - extended free trial for duration of the virus.
KS3-5	Click view - video material for remote learning- charges may apply.
KS3	BBC Bitesize KS3 Biology
KS4	BBC Bitesize GCSE Biology revision
KS4-5	Khan Academy Biology resources , GCSE and A Level.
KS4	Memrise study guide for GCSE Biology AQA
KS4-5	Spark notes online study guides
KS4-5	Scribd: Home to the world's documents.
KS4-5	Botany One : Plant Science from Cell Biology to Ecosystems
KS4-5	Phet Simulations - simulations of biology experiments.
KS3-5	Ask A Biologist - biology activities, puzzles and games.

KS4-5	Things We Don't Know - discover the questions that biologists are trying to answer.
KS2-5	Royal Society of Biology - resources for primary secondary and HE students, competitions and awards for students.
KS1-5	The Biology Zone resources including sound recording and video clips and about different animals and plants.
KS4-5	The New Scientist
KS4-5	Science Museum resources - Genetics
ALL	Your Genome - activities related to genetics.
KS4-5	Health Careers- Medicine - If you're interested in finding out more about working as a doctor in the UK, this NHS website helps offers information about medical degrees and career options
ALL	World Wildlife Fund - information, reading suggestions on a range of topics
KS4-5	bioNRICH - mathematical puzzles with a biological twist suitable for students aged 14-19.
KS5	Nrich Maths for Cambridge Natural Sciences course.
KS4-5	Oxford Science blog
KS4-5	Oxford Research: Research Department of Biology
KS4-5	Oxford Research: The loneliness of the long distance seabird.
	Radio/podcasts/videos/MOOCs
KS4-5	BBC Radio 4 In Our Time - interview with scientists/biologists.
KS4-5	Radio 3 Biology programmes.
KS4-5	Oxford Biology - YouTube
ALL	The Naked Scientist radio show, podcasts and more.
KS4-5	Player FM biology podcasts

KS4	Listen Notes GCSE Biology Podcasts.
KS4	Podbean GCSE Biology revision podcasts.
KS5	Listen Notes A Level Biology Podcasts.
KS5	Podbean A Level Biology revision podcasts.
KS5	A-Level Biology podcasts
KS5	Oxford University Biology podcasts
KS4-5	Biology TED Talks - short talks of less than 20 minutes on various biology topics.
KS4-5	iBiology - Biology talks by some of the world's leading scientists
KS4-5	Bill Nye The Science Guy videos.
KS4-5	Documentaries - Featured - BBC iPlayer
KS5	Video- Studying Biology at Oxford
KS5	Student Profiles of Biology Undergraduates
KS5	Oxford University Biology Research
KS4-5	Oxford University Research - (video): The Surprising Use of Silk
KS4-5	Oxford University Research (video): Preserving Endangered Trees: A Chilean Case Study
KS4-5	Oxford University Research (video): Jatropha Curcas in the Global Race for Biofuels
KS4-5	Oxford University Research (video): Peru's Data Collectors
KS4-5	Oxford University Research (video): Researching the Reef: Fish and Coral of the Caribbean
KS5	Free Biology MOOCS.
	Magazines and Journals
KS4-5	Nature world's leading multidisciplinary science journal.
KS4-5	New Scientist.
KS4-5	National Geographic.
KS5	MIT Technology review Biomedicine
KS5	The British Medical Journal.

KS5	Scientific American - Biology
KS5	Biochemical Society
KS5	Science Daily Biology
KS4-5	Science Magazine - Biology
KS5	ZSL Institute of Zoology - Annual Reports
KS5	The Scientist - Microbiology News and Articles
	Competitions
KS3-5	UK Biology competitions:
	<ul style="list-style-type: none"> ▪ Biology Olympiad KS5 ▪ Intermediate Olympiad KS4 ▪ Biology Challenge KS3
ALL	Oxford University Academic Competitions
	Events
KS4-5	Royal Society of Biology offers events for secondary school students
	Museums across the country offer exhibitions and events.

Resources for teachers

Resource	Notes
Royal Society of Biology	TalkBiology online forum for teachers, CPD for teachers and technicians, careers advice and resources. - Small membership fee applies.
The Microbiology Society	Resources for teachers all key stages, careers information.
The Royal Society for the Protection of Birds	Resources for teachers, outreach visits.
The Node Biologist	Ideas for experiments and other resources.
TES Teaching Resources for Biology	Lesson plans worksheets and activities for secondary and students.
Oxford Sparks teaching resources for Biology	Lesson plans and resources.

Resource	Notes
The British Science Association	STEM competitions - CREST and Youth Challenge British Science week Mass participation projects and more.
The Association of Science Education	Resources for KS2-5 students, best practice teaching guide, outreach events, conferences - Small membership fee applies.