

Biology Resources

	Additional Reading	
KS5	<p>Worcester College Bookshelf Project</p> <p>The Sixth Extinction: An Unnatural History - Elizabeth Kolbert</p>	<p>https://www.worc.ox.ac.uk/applying/access-and-outreach/resources/bookshelf</p>
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) 	<p>https://www.natsci.tripos.cam.ac.uk/prospective-students/reading</p>
	<p>Staircase 12- reading suggestions and resources from current undergraduates</p>	<p>https://www.univ.ox.ac.uk/applying-to-univ/reading-bank/?category=humanities&subcategory=english</p>

	Websites	
KS2-5	Explore some of the big questions that are relevant to us all such as; 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?	Explore.org
KS3-5	Interesting resources to provide stretch and challenge involving input from a range of subjects	https://sicenspire.com/students/year-11-inspire-programme/
	Discover the questions that biologists are trying to answer	https://www.thingswedontknow.com/biology/
KS2-4	Purpose games educational games related to specific subjects and topics E.g. quiz about the heart	https://www.purposegames.com/game/the-heart-quiz
KS3-4	Biology activities, puzzles and games	https://askabiologist.asu.edu/puzzles
KS3-4	Biology Games	http://planeta42.com/biology/
KS2-4	Experiments and free games	http://www.sciencekids.co.nz/biology.html
KS3-4	Science museum resources- genetics	http://whoami.sciencemuseum.org.uk/whoami/find-outmore/yourgenes
KS4/5	The New Scientist	https://institutions.newscientist.com/
KS4/5	Khan Academy biology resources GCSE and A level	https://www.khanacademy.org/science/biology
KS4	BBC Bitesize GCSE Biology revision	https://www.bbc.co.uk/bitesize/subjects/z9ddmp3
KS3	BBC Bitesize KS3 Biology	https://www.bbc.co.uk/bitesize/subjects/z4882hv
KS4-5	S-Cool GCSE and Level Biology revision	https://www.s-cool.co.uk/
ALL	Activities related to genetics	https://www.yourgenome.org/
	World wildlife Fund information, reading suggestions on a range of topics See carbon footprint calculator	https://www.worldwildlife.org/initiatives https://footprint.wwf.org.uk/#/
KS4-5	Virtual lab experiments website	http://glencoe.mheducation.com/sites/dl/free/0078802849/383946/BL_10.html
KS2-5	Royal Society of Biology- Resources for primary secondary and HE students, competitions and awards for students	https://www.rsb.org.uk/teachers

KS2- KS5	Oxford Sparks Science website- podcasts/videos/teaching resources, articles, activities/competitions materials There are a range of over 100 science lesson plans approved by teachers	https://www.oxfordsparks.ox.ac.uk/ https://www.oxfordsparks.ox.ac.uk/content/browse-all-teaching-resources
KS2	Oxford Spark Science activities for KS2 Just imagination booklet is designed for parents to carry out activities with their children	https://www.oxfordsparks.ox.ac.uk/justaddimagination
KS4-5	Oxford Science blog	http://www.ox.ac.uk/news/science-blog
KS4-5	bioNRICH- Mathematical puzzles with a biological twist suitable for students aged 14-19	https://nrich.maths.org/biology
KS5	Nrich Maths for Cambridge Natural Sciences course	https://nrich.maths.org/6884
KS4-5	Oxford Research: Putting ticks on the map	http://www.ox.ac.uk/research/research-impact/putting-ticks-map
KS4-5	Oxford Research: Poetry in motion- bio inspired drone technology	http://www.ox.ac.uk/research/research-impact/poetry-motion
KS4-5	Oxford Research: Defeating Dengue with GM Mosquitoes	http://www.ox.ac.uk/research/research-impact/defeating-dengue-gm-mosquitoes
KS4-5	Oxford Research: The loneliness of the long distance seabird	http://www.ox.ac.uk/research/research-impact/loneliness-long-distance-seabird
KS4-5	Oxford Research: Balancing conservation and commerce in the world's forests	http://www.ox.ac.uk/research/research-impact/balancing-conservation-and-commerce-world%E2%80%99s-forests
	Radio/Podcasts/Videos/MOOCs	
ALL	Bill Nye the science guy videos	https://www.youtube.com/watch?v=nDN7M0J3HXc
	The Naked Scientist radio show, podcasts and more	https://www.thenakedscientists.com/
ALL	Biology documentaries	https://www.bbc.co.uk/iplayer/categories/documentaries-science-and-nature/featured
KS3	KS3 Biology podcasts	https://scienceatschool.co.uk/tag/ks3/
KS4/5	Biology TED Talks - Short talks of less than 20 minutes on various biology topics	https://www.ted.com/talks?topics%5B%5D=biology
KS4/5	iBiology- Biology Talks by some of the world's leading scientists	https://www.ibiology.org/

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KS4-5	Oxford University Biology Podcasts	https://podcasts.ox.ac.uk/keywords/biology
	Player FM Biology podcasts	https://player.fm/series/13165
K4/5	BBC4 In Our time- interview with scientists/biologists	https://www.bbc.co.uk/programmes/p01gyd7i
KS5	A Level Biology podcasts	https://www.senecalearning.com/blog/biology-a-level-podcasts-by-seneca/ https://www.podbean.com/podcast-detail/uq5wh-8c6df/Revise-A-Level-Biology-Podcast
KS4/5	GCSE and A Level Biology podcasts	https://www.listennotes.com/search/?q=biology&sort_by_date=0&scope=episode&offset=0&language=Any%20language&len_min=0
KS5	Free Biology MOOCS	https://www.mooc-list.com/categories/sci-biology-life-sciences
KS4/5	Oxford University Research- (Video)The surprising use of Silk	https://www.youtube.com/watch?v=RS-cjTkuX9w&feature=youtu.be
KS4/5	Oxford University Research- (Video) Bringing Back the Large Blue Butterfly	https://www.youtube.com/watch?v=9k72VVSQxG4&feature=youtu.be
KS4/5	Oxford University Research- (Video) Preserving Endangered Trees: A Chilean Case Study	https://www.youtube.com/watch?v=GzmNjMu8470&feature=youtu.be
KS4/5	Oxford University Research (Video)Jatropha Curcas in the global race for biofuels	https://www.youtube.com/watch?v=gYIJzvBvsHg&feature=youtu.be
KS4/5	Oxford University Research (Video) Peru's Data Collectors	https://www.youtube.com/watch?v=v6XFSqXcVa4&feature=youtu.be
KS4/5	Oxford University Research (Video) Researching the Reef: fish and coral of the Caribbean	https://www.youtube.com/watch?v=2iQaDeGSj1w&feature=youtu.be
KS4/5	Oxford University Research (Video) Putting ticks on the map	http://www.ox.ac.uk/research/research-impact/putting-ticks-map
	Magazines and Journals	
KS4/5	Nature- world's leading multidisciplinary science journal	https://www.nature.com/

KS4-5	New Scientist	https://institutions.newscientist.com/
KS4-5	National Geographic	https://www.nationalgeographic.com/
KS5	The British Medical Journal	https://www.bmj.com/news?gclid=EAlaIQobChMI7siDmlux6AIVw4XVCh0jxQBcEAAYASAAEgLD4vD_BwE
	Competitions	
KS3-5	<ul style="list-style-type: none"> ▪ Biology Olympiad KS5 ▪ Intermediate Olympiad KS4 ▪ Biology Challenge KS3 	https://www.ukbiologycompetitions.org/
KS4-5	<p>The Oxford Scientist- Schools' Writing Competition is open! It is on the theme:</p> <p>A scientific discovery, invention or advance that still affects the world today.</p> <p>For a chance to win a prize and have your piece published in <i>The Oxford Scientist</i>, send us your thoughts as a 700-word essay by Friday 1st May. Open to all UK school students in Years 10 to 13.</p>	<p>http://oxsci.org/schools/</p> <p>Deadline 1st May 2020</p>
KS5	<p>Unsung Heroes of Science Video Making Competition. Anyone in the UK aged 16-18 can enter – we want you to make a short video celebrating a scientist who deserves wider recognition. There are no restrictions on who you can choose to celebrate – they can be alive or dead and from anywhere in the world. We want to see who inspires you in the world of science and learn more about them.</p>	<p>https://www.hertford.ox.ac.uk/unsungscience</p> <p>Deadline Friday April 24th 2020</p>
	Events	
KS4/5	Royal Society of Biology offers events for secondary schools students	https://www.rsb.org.uk/education/teaching-resources/secondary-schools
	Museums across the country offer exhibitions and events	

Resources for Teachers

Royal Society of Biology -TalkBiology on line forum for teachers, CPD for teachers and technicians, careers advice and resources	https://www.rsb.org.uk/teachers Note- small membership fee applies
The Microbiology Society- Resources for teachers all key stages, careers information	https://microbiologysociety.org
The Royal Society for the Protection of Birds-Resources for teachers, outreach visits, activities, competitions and volunteering	https://www.rspb.org.uk
The Node Biologist- Ideas for experiments and other resources	http://thenode.biologists.com/teaching-resources/
TES Teaching Resources for Biology - Lesson plans worksheets and activities for secondary and students	https://www.tes.com/teaching-resources/hub/secondary/biology
Oxford Sparks Teaching resources for Biology	https://www.oxfordsparks.ox.ac.uk/content/teaching-resources
The British Science Association- <ul style="list-style-type: none"> ▪ STEM competitions- CREST and Youth Challenge ▪ British Science week ▪ Mass participation projects and more 	https://www.britishsocietyassociation.org
The Association of Science Education- Resources for KS2-5 students, best practice teaching guide Outreach events, conferences	https://www.ase.org.uk/resources note small membership fee applies
The training partnership study days- biology KS5	https://thetrainingpartnership.org.uk/study-days/subjects/biology/