

Chemistry Resources

	Additional Reading	
KS4-5	Good Reads: Chemistry <i>A list of popular chemistry books.</i>	Good Reads: Chemistry
KS4/5	Worcester College Bookshelf Project designed to encourage the sharing and review of books that are enjoyed in each subject	https://www.worc.ox.ac.uk/applying/access-and-outreach/resources/bookshelf
KS5	Staircase 12- see subject specific materials recommended by current undergraduates	https://www.univ.ox.ac.uk/applying-to-univ/reading-bank/?category=humanities&subcategory=english
KS5	<p>Introductory Material for undergraduate students</p> <p>Physical Chemistry, P W Atkins, Oxford University Press (8th edn.) 2006, [7th edn. 2001]</p> <p>Inorganic Chemistry, Shriver and Atkins, Oxford University Press (4th edn) 2006, (previous edn., 1999)</p> <p>Chemistry of the Elements, Greenwood & Earnshaw, Pergamon (2nd edn.), 1997 [1st edn. 1985]</p> <p>Foundations of Organic Chemistry, Hornby & Peach, Oxford Chemistry Primer, OUP, 1996</p> <p>A Guide to Mechanism in Organic Chemistry, Sykes, Pearson (6th edn.), 1986</p>	http://www.ox.ac.uk/sites/files/oxford/media_wysiwyg/Introductory_reading_for_Chemistry.pdf

	Organic Chemistry, Maitland, Jones, Norton, (3rd edn.) 2004 Mathematical Methods for Science Students, G. Stephenson, Pearson (2nd edn.) 1978, rep. 1984 Organic Chemistry, Clayden, Greeves, Warren and Wothers, OUP	
	Websites	
KS5	Chemguide <i>A useful website for A level Chemistry. Provides an alternative 'teacher voice'. Mainly text.</i>	Chemguide
KS5	RSC Synthesis Explorer <i>Plan synthetic routes and study key organic chemistry reactions interactively with this resource</i>	Synthesis Explorer
KS5	ACD Chem Sketch <i>Free resource for drawing molecules.</i>	ChemSketch
KS5	Nrich maths resources for students intending to study Chemistry at university	https://nrich.maths.org/unichem
KS5	Questions and challenges set by Oxford tutors	https://sjcinspire.com/category/chemistry+questions/ https://sjcinspire.com/category/questions/
KS4/5	RSC Analysis Resources <i>A useful collection of resources focused on chemical analysis.</i>	RSC Analysis Resources
All	Things we don't know-chemistry- explains the questions that scientists are trying to answer	https://www.thingswedontknow.com/chemistry/
KS4/5	The New Scientist	https://institutions.newscientist.com/
KS5	The Oxford Science blog	http://www.ox.ac.uk/news/science-blog
KS1-5	The Chemistry Zone resources for students in all years currently free until August	http://www.sciencejoywagon.com/chemzone/
KS2-5	Free Chemistry games/ challenges/experiments for children of all ages	http://www.sciencekids.co.nz/chemistry.html

ALL	Educational Chemistry games	https://www.purposegames.com/game/6oW6aKpZQ4s
KS2-4	Planet 42 Chemistry games	http://planeta42.com/chemistry/
KS3	Salter's Institute puzzles activities and challenges	https://www.saltersinstitute.co.uk/chemistry-club/competition-time/
Yr. 11	Challenging questions involving input from a variety of subjects	https://sicenspire.com/students/year-11-inspire-programme/
KS4	S-Cool Chemistry GCSE and A Level revision	https://www.s-cool.co.uk/gcse/chemistry
KS4	GCSE Bitesize- Chemistry	https://www.bbc.co.uk/bitesize/subjects/zs6hvcw
KS3	KS3 Bitesize Chemistry	https://www.bbc.co.uk/bitesize/subjects/znxtyrd
KS4	Spark Notes revision resources – Chemistry	https://www.sparknotes.com/chemistry/
	Radio/Podcasts/Videos/Lectures/Documentaries/MOOCs	
KS2-5	<p>CLEAPSS YouTube Channel</p> <p><i>A large number of clips detailing Practical work developed to support teachers. CLEAPSS suggest these can be used as demonstrations.</i></p> <p><i>For those with CLEAPSS membership (£), there is a guidance document (GL339) which provides descriptions and hyperlinks for specific clips.</i></p>	CLEAPSS YouTube Channel
ALL	<p>Royal Society YouTube Channel</p> <p><i>Curated by playlist, a whole set of engaging videos and clips.</i></p>	Royal Society YouTube Channel
ALL	<p>Wothers.com</p> <p><i>Engaging series of online videos of lecture-demonstrations from Cambridge University's Chemistry</i></p>	Wothers.com
KS5	Oxford Research turning an orange into a grapefruit	http://www.ox.ac.uk/research/research-impact/turning-orange-grapefruit

KS5	Oxford Research- fuel cells inspired by nature (Video)	https://www.youtube.com/watch?v=W9nBcWsOmcM&feature=youtu.be
KS5	Chemistry in the garden (Video)	https://www.youtube.com/watch?v=2EkfdtXUj3U&feature=youtu.be
KS4-5	BBC Chemistry documentaries BBC Science and Nature	https://www.bbc.co.uk/programmes/b00qbg7f https://www.bbc.co.uk/programmes/genres/factual/scienceandnature/player
KS4/5	Oxford University Chemistry podcasts	http://podcasts.ox.ac.uk/units/department-chemistry
KS4/5	Chemistry World podcasts	https://www.chemistryworld.com/podcasts
KS4/5	Royal Society of Chemistry periodic table podcast	https://www.rsc.org/periodic-table/podcast
KS4/5	Khan Academy Chemistry GCSE and A Level	https://www.khanacademy.org/science/chemistry
KS4-5	Podcasts focusing on interesting areas of Chemistry	https://player.fm/featured/chemistry
KS4/5	BBC Four in Our Time- Chemistry podcasts	https://www.bbc.co.uk/programmes/b006qykl/topics/Chemistry
KS4-5	Ted Talks- Chemistry	https://www.ted.com/talks?topics%5B%5D=chemistry
KS4/5	The Naked Scientist	https://www.thenakedscientists.com/
KS4-5	A Level Chemistry Revision podcasts	https://www.podbean.com/podcast-detail/u3vaq-3814b/A-Level-Chemistry-Revision-Podcast

	GCSE Chemistry Revision podcasts	https://www.podbean.com/podcast-detail/qbzxp-875fd/Revise---GCSE-Chemistry-Revision-Podcast
KS4-5	GCASE and A Level Chemistry Revision podcasts	https://www.listennotes.com/podcasts/revise-gcse/gcse-chemistry-the-haber-0N67gt5HM4e/ https://www.listennotes.com/podcasts/a-level-chemistry-revision-chris-harris-MWqBlyXO-mD/
KS4-5	Chemistry GCSE and A Level podcasts	https://www.senecalearning.com/blog/chemistry-gcse-podcasts-by-seneca/ https://www.senecalearning.com/blog/chemistry-a-level-podcasts-by-seneca
KS5	Free Chemistry MOOCS	https://www.my-mooc.com/en/categorie/chemistry
	Magazines and Journals	
KS5	Chemistry World	https://www.chemistryworld.com/?redir=http%3A%2F%2Fwww.rsc.org%2Fchemistryworld%2F
KS5	Royal Society of Chemistry	https://www.rsc.org/journals-books-databases/a-z-resources-list/
KS5	The Scientist: Chemistry <i>Although a subscription magazine, there are free newsletters and access to articles on the website.</i>	The Scientist: Chemistry
	Competitions	
KS4-5	The Oxford Scientist- Schools' Writing Competition is open! It is on the theme: A scientific discovery, invention or advance that still affects the world today.	http://oxsci.org/schools/ Deadline 1 st May 2020

	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 1 st May. Open to all UK school students in Years 10 to 13.	
KS5	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.	https://www.hertford.ox.ac.uk/unsungscience Deadline Friday April 24 th 2020
KS5	Chemistry Olympiad	https://edu.rsc.org/enrichment/uk-chemistry-olympiad
ALL	Various including CREST Awards, Greenpower challenge and Chemistry Festivals	http://www.schoolscience.co.uk/competitions
Yr 12	Cambridge Chemistry Challenge- <i>An excellent annual competition for students in Year 12 (and a great way to extend able Year 11). Past papers, mark schemes and commentaries available.</i>	http://www.c3l6.org/about
	Events	
KS4-5	Royal Society for Chemistry- see ideas for teaching practical chemistry remotely	https://edu.rsc.org/eic

Resources for Teachers

The British Science Association-	https://www.britishtscienceassociation.org
<ul style="list-style-type: none"> ▪ STEM competitions- CREST and Youth Challenge ▪ British Science week ▪ Mass participation projects and more 	
TES Chemistry resources for teachers, lesson plans and ideas for activities	https://www.tes.com/teaching-resources/hub/secondary/chemistry

The Royal Society of Chemistry- Lectures/masterclasses/CPD	https://edu.rsc.org/eic
Resourceaholic – resources for teaching secondary school chemistry quiz	https://www.resourceaholic.com/2019/02/knowledgequiz.html
Chemistry in a box KS3	https://www.stem.leeds.ac.uk/chemistry/experimentinabox/
Chemistry in Action video materials of study days	https://thetrainingpartnership.org.uk/study-days/subjects/chemistry/