 

**Chemistry Department**

**Super Curriculum**

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| **Reading (books and journals)** |
| Reading list | **Books**The Science Magpie, Simon FlynnA Bee in a Cathedral, Joel LevyThe Disappearing Spoon and Other Extraordinary True Tales from the Periodic Table, Sam KeanReactions: The Private Life of Atoms, Peter AtkinsBad Science, Ben GoldacreThe Fontana History of Chemistry, William BrockPeriodic Tales: The Curious Lives of the Elements, Hugh Aldersley-WilliamsMolecules: A Very Short Introduction, Philip BallMolecules at an Exhibition (The Science of Everyday Life), John EmsleyThe New Chemistry, Nina HallNature’s Building Blocks: An A-Z Guide to the Elements, John EmsleyWhy Chemical Reactions Happen, James Keeler and Peter WothersA Short History of Nearly Everything, Bill BrysonHow to Fossilise Your Hamster, Mick O’HareThe Periodic Table, Primo Levi**Magazines/Journals**New Scientist, [New Scientist | Science news, articles, and features](https://www.newscientist.com/)Catalyst magazine, [Catalyst Magazine - Issue 43 (catalyst-magazine.org)](https://catalyst-magazine.org/)Chemistry Review, [Chemistry Review - Hodder Education Magazines](https://www.hoddereducationmagazines.com/magazines/chemistry-review/)Chemistry World, [Chemistry news, research and opinions | Chemistry World](https://www.chemistryworld.com/) |
| Chemistry newsletter/ displays/Molecule of the month | Up-to-date Chemistry news/discoveries/etc. Quirky facts about everyday molecules. See Whole School Team for updates |
| [Openlearn](https://www.open.edu/openlearn/mod/oucontent/view.php?id=87848&section=_unit6.1) | [Discovering chemistry - OpenLearn - Open University](https://www.open.edu/openlearn/science-maths-technology/chemistry/discovering-chemistry/content-section-overview?active-tab=description-tab)[Metals in medicine - OpenLearn - Open University](https://www.open.edu/openlearn/science-maths-technology/metals-medicine/content-section-0?active-tab=description-tab) [The science of alcohol - OpenLearn - Open University](https://www.open.edu/openlearn/science-maths-technology/the-science-alcohol/content-section-overview?active-tab=description-tab) |
| **Podcasts**  |
| TED talks/BBC radio/RSC | Imperial College Online Lectures <https://www.imperial.ac.uk/be-inspired/social-and-multimedia/lectures-online>Chemistry TED talks <https://www.ted.com/talks?topics%5B%5D=chemistry>In Our Time, Chemical Elements (BBC) [BBC Radio 4 - In Our Time, Chemical Elements](https://www.bbc.co.uk/programmes/p00546sz) Brought to you by Chemistry (RSC) <http://www.rsc.org/periodic-table/podcast>The Infinite Monkey Cage (BBC) [BBC Radio 4 - The Infinite Monkey Cage](https://www.bbc.co.uk/programmes/b00snr0w) |
| Documentaries | Behind the curve (Netflix)Pain, Pus and Poison: The Search for Modern Medicines (BBC)Secrets of the Super elements (BBC)Chemistry: A volatile history (BBC)H2O: The Molecule that Made Us (BBC) |
| **MOOCs and on-line opportunities**  |
| MOOC | [Exploring Everyday Chemistry, York University/Future Learn](https://www.futurelearn.com/courses/everyday-chemistry)[The Trillionth Tonne of Carbon and Why It Matters For Climate Change | Gresham College](https://www.gresham.ac.uk/watch-now/trillionth-tonne)[Microbial Master-Chemists | Gresham College](https://www.gresham.ac.uk/watch-now/master-chemists) |
| **Awards and competitions** |
| Olympiad (KS5) | <https://edu.rsc.org/enrichment/uk-chemistry-olympiad>  |
| Cambridge Challenge (KS5) | <https://www.c3l6.com/about>  |
| Pending Top of the Bench (KS4), Salters challenge (KS3), RSC Analysts competition (KS5)  | Practical Chemistry competitions<https://edu.rsc.org/enrichment/top-of-the-bench> <https://festivalsofchemistry.org/> <https://edu.rsc.org/enrichment/schools-analyst>  |
| Chemistry quiz (KS3) | Multiple choice themed Chemistry quizzes are posted fortnightly on TEAMs |
| Pending Online Chemistry competition (KS4) | [National Scientific Thinking Challenge (warwick.ac.uk)](https://warwick.ac.uk/study/outreach/scientificthinking/) |
| **Places to visit**  |
| Warwick University (KS5) | Chemistry in Action lectures [Chemistry in Action - Education in Action](https://educationinaction.org.uk/study-day/chemistry-in-action-29-11-2022/) |
| **Membership and affiliations** |
| RSC | <https://www.rsc.org/> Royal Society of Chemistry |