 

**Chemistry Department**

**Super Curriculum**

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| **Reading (books and journals)** | |
| Reading list | **Books**  The Science Magpie, Simon Flynn  A Bee in a Cathedral, Joel Levy  The Disappearing Spoon and Other Extraordinary True Tales from the Periodic Table, Sam Kean  Reactions: The Private Life of Atoms, Peter Atkins  Bad Science, Ben Goldacre  The Fontana History of Chemistry, William Brock  Periodic Tales: The Curious Lives of the Elements, Hugh Aldersley-Williams  Molecules: A Very Short Introduction, Philip Ball  Molecules at an Exhibition (The Science of Everyday Life), John Emsley  The New Chemistry, Nina Hall  Nature’s Building Blocks: An A-Z Guide to the Elements, John Emsley  Why Chemical Reactions Happen, James Keeler and Peter Wothers  A Short History of Nearly Everything, Bill Bryson  How to Fossilise Your Hamster, Mick O’Hare  The 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 |