**SUBJECT-SPECIFIC ENRICHMENT**

**SUBJECT: SCIENCE**

**THE SCHOOL**

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| 1 | **Recommended books:**[Why does asparagus make your wee smell?](https://www.amazon.co.uk/Does-Asparagus-Make-Your-Smell/dp/1409156613)[Why don’t penguins’ feet freeze?](https://www.amazon.co.uk/Why-Dont-Penguins-Feet-Freeze/dp/1861978766)[Women in Science: 50 fearless pioneers who changed the world](https://www.amazon.co.uk/dp/B017G7KJRS/ref%3Ddp-kindle-redirect?_encoding=UTF8&btkr=1)[The Science Book: Big ideas simply explained](https://www.amazon.co.uk/Science-Book-Ideas-Simply-Explained/dp/1409350150/ref%3Dsr_1_1?adgrpid=104061385616&dchild=1&gclid=EAIaIQobChMIxPi3iYaH7AIVkuF3Ch1nbw-8EAAYASAAEgLK3_D_BwE&hvadid=446189340685&hvdev=c&hvlocphy=9044960&hvnetw=g&hvqmt=e&hvrand=12442200535662653478&hvtargid=kwd-317866556598&hydadcr=10809_1789873&keywords=science+books+for+teenagers&qid=1601131085&sr=8-1&tag=googhydr-21) |
| 2 | **Films**[Big Hero 6](https://www.imdb.com/title/tt2245084/)[Hidden Figures](https://www.imdb.com/title/tt4846340/)**Documentaries**[Blue Planet](https://www.bbc.co.uk/programmes/b008044n)[Chemistry: A Volatile History](https://www.bbc.co.uk/programmes/b00qbq7f)[Wonders of the Solar System](https://www.bbc.co.uk/programmes/b00qyxfb) |
| 3 | **Experiments at Home**[Steve Spangler Science at Home](https://www.stevespanglerscience.com/lab/experiment-library/)[MEL Science](https://melscience.com/GB-en/?utm_source=google&utm_medium=cpc&utm_campaign=GB-search-new-brand-text&utm_term=melscience%20com&utm_content=437772037581&gclid=Cj0KCQjwzbv7BRDIARIsAM-A6-2D2S_EQTFEZDtHRLrRpNrzthN7j9jOiOsWMo7fXajpStq8outh-rAaAuNEEALw_wcB)[Science Fun](https://www.sciencefun.org/kidszone/experiments/) |
| 4 | **Places to visit:** [Science Museum](https://www.sciencemuseum.org.uk/)[London Museum of Water and Steam](https://waterandsteam.org.uk/)[Grant Museum of Zoology](https://www.ucl.ac.uk/culture/grant-museum-zoology) |
| 5 | **Competitions:** [Big Bang Science Fair](https://www.thebigbangfair.co.uk/)[NPL Space Rocket Challenge](https://www.npl.co.uk/space-rocket-challenges-2020) |

**JUNIOR COLLEGE**

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| 1 | **Recommended books:**[Why We Sleep by Matthew Walker](https://www.amazon.co.uk/Why-We-Sleep-Science-Dreams/dp/0141983760)[The Edge of Life by Jim Al-Kalili](https://www.amazon.co.uk/Life-Edge-Coming-Quantum-Biology/dp/0552778079/ref%3Dsr_1_1?dchild=1&keywords=edge+of+life+jim&qid=1601110949&s=books&sr=1-1)[Inventing ourselves: the secret life of the teenage brain by Sarah-Jayne Blakemore](https://www.amazon.co.uk/Inventing-Ourselves-Secret-Teenage-Brain/dp/1784161349/ref%3Dsr_1_1?adgrpid=103652027277&dchild=1&gclid=EAIaIQobChMI7aW80oaH7AIVA-ntCh20VA4QEAAYASAAEgLFF_D_BwE&hvadid=445845360465&hvdev=c&hvlocphy=9044960&hvnetw=g&hvqmt=e&hvrand=17714638615199934253&hvtargid=kwd-427984100088&hydadcr=24430_1748944&keywords=blakemore+teenage+brain&qid=1601131235&sr=8-1&tag=googhydr-21) |
| 2 | **Films:**[Radioactive](https://www.imdb.com/title/tt6017756/)[The Theory of Everything](https://www.imdb.com/title/tt2980516/?ref_=fn_al_tt_1)[Virunga](https://virungamovie.com/)[Hidden Figures](https://www.imdb.com/title/tt4846340/)[Gattaca](https://en.wikipedia.org/wiki/Gattaca)[The Imitation Game](https://en.wikipedia.org/wiki/The_Imitation_Game)**Documentaries:**[Blue Planet](https://www.bbc.co.uk/programmes/b008044n)[Chemistry: A Volatile History](https://www.bbc.co.uk/programmes/b00qbq7f)[Wonders of the Solar System](https://www.bbc.co.uk/programmes/b00qyxfb) |
| 3 | **Experiments at Home:**[MEL Science](https://melscience.com/GB-en/?utm_source=google&utm_medium=cpc&utm_campaign=GB-search-new-brand-text&utm_term=melscience%20com&utm_content=437772037581&gclid=Cj0KCQjwzbv7BRDIARIsAM-A6-2D2S_EQTFEZDtHRLrRpNrzthN7j9jOiOsWMo7fXajpStq8outh-rAaAuNEEALw_wcB) |
| 4 | **Places to visit:** [Science Museum](https://www.sciencemuseum.org.uk/) |
| 5 | **Competitions:** Year 10 RSC Chemistry Challenge – ask your Chemistry teachers for more information.[Biology Challenge](http://www.ukbiologycompetitions.org/biology-challenge/) – ask your Biology teachers for more information.  |
| 6 | **Courses:**[Future Learn Writing Science course](https://www.futurelearn.com/courses/discovering-science-science-writing) |
| 7 | **Online talks:**TED Talks: [Jaw-dropping Science break throughs](https://www.ted.com/playlists/484/jaw_dropping_science_breakthro) |

**SENIOR COLLEGE**

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| 1 | **Recommended books:**[The Periodic Table by Primo Levi](https://www.waterstones.com/book/the-periodic-table/primo-levi/raymond-rosenthal/9780141185149) [Deep Simplicity by John Gribbin](https://www.amazon.co.uk/Deep-Simplicity-Complexity-Emergence-Penguin/dp/0141007222)*Advanced*: [The Structures of Scientific Revolutions by Thomas.S.Kuhn](https://www.amazon.co.uk/Structure-Scientific-Revolutions-50th-Anniversary/dp/0226458121/ref%3Dsr_1_1?crid=2JDJWJOL5Q9WX&dchild=1&keywords=the+structure+of+scientific+revolutions&qid=1601110993&s=books&sprefix=structure+of+re%2Cstripbooks%2C187&sr=1-1) |
| 2 | **Magazines:**[Biology, Chemistry or Physics Review magazines](https://www.amazon.co.uk/stores/page/F3301F57-DB8C-4EC5-8880-706484B4503E)  |
| 3 | **Series:**[Chernobyl](https://www.imdb.com/title/tt7366338/)**Documentaries:**[Chemistry: A Volatile History](https://www.bbc.co.uk/programmes/b00qbq7f)[The Ascent of Man](https://en.wikipedia.org/wiki/The_Ascent_of_Man)**Films:**[Radioactive](https://www.imdb.com/title/tt6017756/)[The Theory of Everything](https://www.imdb.com/title/tt2980516/?ref_=fn_al_tt_1)[Virunga](https://virungamovie.com/)[Hidden Figures](https://www.imdb.com/title/tt4846340/) |
| 4 | **Industry websites**[AstraZeneca Pharmaceuticals](https://www.astrazeneca.co.uk/)[Foods Standards Agency (FSA)](https://www.food.gov.uk/)[NASA](https://www.nasa.gov/) |
| 5 | **In the News:**[BBC News – Science and Environment](https://www.bbc.co.uk/news/science_and_environment)[Science Weekly hosted by The Guardian](https://www.theguardian.com/science/series/science)[NHS News](https://www.nhs.uk/news/) |
| 6 | **Places to visit:** [Wellcome Collection](https://wellcomecollection.org/) |
| 7 | **Competitions:** [Chemistry Olympiad](https://edu.rsc.org/rsc-education-news/uk-chemistry-olympiad-2020-round-1-results-released/4011253.article) – ask your Chemistry teachers for more information[Biology Olympiad](http://www.ukbiologycompetitions.org/british-biology-olympiad/) – ask your Biology teachers for more information |
| 8 | **Courses:**[Future Learn Writing Science course](https://www.futurelearn.com/courses/discovering-science-science-writing)[Future Learn: Data Driven Decision making](https://www.futurelearn.com/microcredentials/data-driven-decision-making) |
| 9 | **Online talks:** TED Talks: [Jaw-dropping Science break throughs](https://www.ted.com/playlists/484/jaw_dropping_science_breakthro)[University of Irvine Chemistry lectures](http://ocw.uci.edu/collections/open_chemistry.html) |
| 10 | **Essay titles:** [Kelvin Essay Prize](https://www.pet.cam.ac.uk/essay-prizes) |