# Medicine Resources for Schools

(Please also refer to resource list for Biology)

## Resources for students

<table>
<thead>
<tr>
<th>Key stage</th>
<th>Resource</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Additional Reading</strong></td>
<td></td>
</tr>
<tr>
<td>KS5</td>
<td>University of Oxford Medical Sciences Division – Introductory reading</td>
</tr>
<tr>
<td>KS4-5</td>
<td>Clinical Psychology: A Very Short Introduction - Susan Llewelyn and Katie Aafjes-van Doorn OUP</td>
</tr>
<tr>
<td>KS4-5</td>
<td>Dementia: A Very Short Introduction - Kathleen Taylor OUP</td>
</tr>
<tr>
<td>KS4-5</td>
<td>Drugs: A Very Short Introduction - Les Iversen OUP</td>
</tr>
<tr>
<td>KS4-5</td>
<td>Epidemiology: A Very Short Introduction - Rodolfo Saracci OUP</td>
</tr>
<tr>
<td>KS4-5</td>
<td>Genes: A Very Short Introduction - Jonathan Slack OUP</td>
</tr>
<tr>
<td>KS4-5</td>
<td>The Gene: An Intimate History - by Siddartha Mukherjee - a good outline of modern medical genetics and how we got there.</td>
</tr>
<tr>
<td>KS4-5</td>
<td>Heredity: A Very Short Introduction - John Waller OUP</td>
</tr>
<tr>
<td>KS4-5</td>
<td>Medical Ethics: A Very Short Introduction - Michael Dunn and Tony Hope</td>
</tr>
<tr>
<td>KS4-5</td>
<td><strong>Psychiatry: A Very Short Introduction</strong> - Tom Burns OUP</td>
</tr>
<tr>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>KS4-5</td>
<td><strong>Viruses: A Very Short Introduction</strong> - Dorothy H. Crawford OUP</td>
</tr>
<tr>
<td>KS4-5</td>
<td><strong>When Breath becomes Air</strong> by Paul Kalanithi - Stanford University neurosurgeon Paul Kalanithi was diagnosed with terminal lung cancer at the age of 30. He uses this book to tell his story and tackle the issue of approaching death with grace; what is the meaning of life? What makes a life worth living? These are just some questions he discusses in this thought-provoking piece.</td>
</tr>
<tr>
<td>KS4-5</td>
<td><strong>Being Mortal</strong> by Atul Gawande - American surgeon Atul Gawande discusses how care for the sick and old has evolved since the 1900s, where American hospitals were more like holding cells and did not provide much care. As they started to get equipped with antibiotics and monitoring equipment, this changed drastically. It also talks of the cultural contrast with Asian and middle eastern countries, where the elderly are revered and cared for by their families until they require advanced care. Gawande also discusses the topic of assisted suicide, and hope for the ageing population in the future.</td>
</tr>
<tr>
<td>KS4-5</td>
<td><strong>Do No Harm</strong> by Henry Marsh - insightful account of a doctor’s experiences, wherein neurosurgeon Henry Marsh dives into the realities of having someone’s life in your hands. It’s been described as “An unforgettable insight into the countless human dramas that take place in a busy modern hospital.</td>
</tr>
<tr>
<td>KS4-5</td>
<td><strong>Where there is no Doctor: a Village Healthcare Handbook</strong> by David Werner - this book aims to inform its readers on how to deal with healthcare issues even in an isolated area where professional healthcare may not be readily available.</td>
</tr>
<tr>
<td>KS4-5</td>
<td><strong>This is Going to Hurt</strong> by Adam Kay – light-hearted yet informative accounts of Adam Kay’s career as a gynaecologist, the story starts from when he was applying to med school. He goes on to talk about his days as a junior doctor, seeing his first death, saving his first life, and being the classic overworked-yet-underpaid doctor.</td>
</tr>
<tr>
<td>KS4-5</td>
<td><strong>The Emperor of All Maladies</strong>: A Biography of Cancer – Siddhartha Mukherjee An excellent book, exploring the history of Cancer, the evolution of its treatment and why it is such a difficult and fascinating illness to treat.</td>
</tr>
</tbody>
</table>
| KS4-5 | **Bad Science** - Doctor Ben Goldacre  
**I think You'll Find It's a Bit More Complicated Than That** - Doctor Ben Goldacre Two books written by a doctor exploring medical statistics, data, medical trials and how the pharmaceutical industry works in the modern world. |
| KS5 | **Guns, Germs and Steel** - Jared Diamond discusses the effects of Geography and Biology on the success of global civilisations. |
| KS5 | **The Deadly Dinner Party**, by Jonathan Edlow a medical detective story |
| KS5 | **Thinking, Fast and Slow**, by Daniel Kahneman a ground breaking tour of the mind two systems that drive the way we think and make choices |
| KS5 | **Open Access Chemistry Textbooks** |
| KS5 | **Worcester College Bookshelf Project** |
| KS5 | **Staircase 12** - Suggested reading from current undergraduates |

### Websites

<p>| KS4-5 | <strong>Medical Schools Council</strong> - entrance requirements for all medical schools information to support prospective applicants |
| KS5 | <strong>The British Medical Association</strong> – guide to applying to medical school and obtaining work experience |
| KS5 | <strong>Free Interview Prep course</strong> |
| KS5 | <strong>Medicine Answered</strong> - a guide to medical admissions tests. |
| KS5 | <strong>Medicine Answered</strong> – 10 step guide to writing a personal statement for medicine. |
| KS5 | <strong>Applying for Medicine at Oxford University</strong>- information about personal statements, admissions tests and interview |
| KS5 | <strong>Information and help with The BioMedical Admissions Test (BMAT)</strong> |
| KS4-5 | <strong>Health Careers- Medicine</strong> - If you’re interested in finding out more about working as a doctor in the UK, this NHS website helps offers information about medical degrees and career options and volunteering opportunities for work experience |
| KS5 | <strong>Brighton and Sussex Medical School</strong>- virtual work experience |
| KS5 | <strong>Observe a GP</strong>- alternative work experience offering insights in role of GP and <strong>Royal College of General Practitioners</strong> for news and information |
| KS5 | <strong>The Medic Portal</strong> information about volunteering placements |
| KS4-5 | <strong>My HE Plus</strong> information and resources about studying medicine at university |
| KS5 | <strong>The Brilliant Club-</strong> some relevant master classes and other resources |
| KS5 | <strong>Basic Concepts in Medical</strong> and veterinary science from Cambridge University |
| KS5 | <strong>Teach Me Anatomy</strong>- resource for medical students and professionals |
| KS5 | <strong>The Physiology Society</strong>- articles, webinars, newsletter |</p>
<table>
<thead>
<tr>
<th>KS4-5</th>
<th>Xplore Health - activities, resources</th>
</tr>
</thead>
<tbody>
<tr>
<td>KS5</td>
<td>Institute of Biomedical Research careers advice, work experience placements and resources</td>
</tr>
<tr>
<td>KS4-5</td>
<td>Your Genome Genes, genomes and their implications for health and society</td>
</tr>
<tr>
<td>KS4-5</td>
<td>Genetics Science Museum resources</td>
</tr>
<tr>
<td>KS4-5</td>
<td>Bacterial World - Oxford University Museum of Natural History Resources</td>
</tr>
<tr>
<td>KS5</td>
<td>Useful blog – about why you might want to study medicine.</td>
</tr>
<tr>
<td>KS5</td>
<td>Bad Science blog by Dr Ben Goldacre about current issues in Medicine and science research</td>
</tr>
<tr>
<td>KS5</td>
<td>Practical Ethics blog about ethics in the news</td>
</tr>
<tr>
<td>KS5</td>
<td>NHS guide to science behind the headlines</td>
</tr>
<tr>
<td>KS4-5</td>
<td>Oxford Medical Research</td>
</tr>
<tr>
<td>KS5</td>
<td>Wellcome information about research into current health challenges</td>
</tr>
<tr>
<td>KS5</td>
<td>Zooniverse medical project seeking information and support with research from volunteers</td>
</tr>
<tr>
<td>KS5</td>
<td>British library online - videos, articles and other resources</td>
</tr>
<tr>
<td>KS5</td>
<td>Things We Don’t Know - discover the questions the scientists are trying to answer</td>
</tr>
<tr>
<td>KS4-5</td>
<td>The New Scientist</td>
</tr>
<tr>
<td>KS4-5</td>
<td>Oxford Science blog</td>
</tr>
<tr>
<td>KS4-5</td>
<td>Oxford Sparks - science website - research and resources</td>
</tr>
<tr>
<td>KS5</td>
<td>The Med School Project - blogs about ethics, diseases and treatments by sixth formers interested in the medical sciences</td>
</tr>
</tbody>
</table>
| KS2-5 | Oxplore - explore some of the big questions that are relevant to us all such as:  
  - Could we end disease?  
  - Can you choose to be healthy?  
  - Is it OK to clone a human being? |
<p>| <strong>Radio/Podcasts/Videos/MOOCs</strong> |
| KS4-5 | BBC Radio 4 In Our Time - interviews with leaders in different fields |
| KS4-5 | <strong>BBC Radio 4 Inside the Ethics Committee</strong> |
| KS4-5 | <strong>BBC Radio 4 The Life Scientific</strong> |
| KS4-5 | <strong>BBC Science News</strong> |
| KS4-5 | <strong>Radio 3 Biology programmes.</strong> |
| KS4-5 | <strong>The Naked Scientist</strong> radio shows and podcasts |
| KS4-5 | <strong>BBC Radio 4 More or Less</strong> - Behind the Stats podcast |
| KS4-5 | <strong>Genetics Society</strong> range of podcasts about different aspect of genetics |
| KS4-5 | <strong>Synthego</strong> podcasts about genetics |
| KS5 | <strong>This Podcast Could Kill You</strong> - series with graduates discussing disease ecology |
| KS5 | <strong>Medical Mysteries</strong> - bizarre conditions |
| KS5 | <strong>Royal Society of Medicine podcasts</strong> |
| KS4-5 | <strong>Science Friday</strong> podcasts about health |
| KS4-5 | <strong>The Guardian Long Reads</strong> podcasts |
| KS4-5 | <strong>Ologies</strong> podcasts including Virology and neuroendocrinology |
| KS5 | <strong>Oxford University Medical Science Division</strong> Podcasts |
| KS5 | <strong>Oxford University Biology podcasts</strong> |
| KS4-5 | <strong>Medicine TED Talks</strong> short talks of less than 20 minutes on various medical topics |
| KS4-5 | <strong>Biology TED Talks</strong> - short talks of less than 20 minutes on various biology topics. |
| KS4-5 | <strong>iBiology</strong> - Biology talks by some of the world’s leading scientists |
| KS5 | <strong>Medical Schools Council</strong> videos, articles and resources to support prospective applicants |
| KS5 | <strong>Medical Sciences at Oxford</strong> - video |
| KS4-5 | <strong>Balliol College - Medical Sciences Video</strong> - In this video, Dr Lisa Walker (Fellow in Medical Sciences) answers questions about preparing for tutorials, how she explores ideas with students and what she enjoys about conversations with them. |
| KS5 | <strong>Medical Research at Oxford University</strong> |
| KS5 | <strong>Gresham College</strong> public lectures in medical sciences |</p>
<table>
<thead>
<tr>
<th>Level</th>
<th>Source</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>KS5</td>
<td>Cambridge lectures</td>
<td></td>
</tr>
<tr>
<td>KS5</td>
<td>Bill Nye The Science Guy videos</td>
<td>videos about life sciences</td>
</tr>
<tr>
<td>KS5</td>
<td>Immunology of Nut Allergy</td>
<td>Oxford University Seren Summer school</td>
</tr>
<tr>
<td>KS4-5</td>
<td>Gene Editing Is It Ethical?</td>
<td>Oxford Sparks</td>
</tr>
<tr>
<td>KS4-5</td>
<td>Needle Free Vaccines</td>
<td>Oxford Sparks</td>
</tr>
<tr>
<td>KS4-5</td>
<td>Parkinson’s Disease and Research</td>
<td>Oxford Sparks</td>
</tr>
<tr>
<td>KS4-5</td>
<td>Interview with Expert in Genetics, and Colorectal Cancer</td>
<td>Oxford Sparks</td>
</tr>
<tr>
<td>KS4-5</td>
<td>The Royal Society</td>
<td>videos about different aspects of science</td>
</tr>
<tr>
<td>KS5</td>
<td>The Cure</td>
<td>programme about doctors and health workers on the front line facing different challenges</td>
</tr>
<tr>
<td>KS4-5</td>
<td>BBC Biology documentaries</td>
<td>science and nature</td>
</tr>
<tr>
<td>KS5</td>
<td>Xplore Health</td>
<td>This programme offers multimedia resources, giving an insight into the latest biomedical research</td>
</tr>
<tr>
<td>KS5</td>
<td>Coursera</td>
<td>Medicine MOOCS</td>
</tr>
<tr>
<td>KS5</td>
<td>IVY League</td>
<td>free MOOCS in Health and Medicine</td>
</tr>
<tr>
<td>KS5</td>
<td>Harvard</td>
<td>free online courses Medicine and Health</td>
</tr>
<tr>
<td>KS5</td>
<td>Yale</td>
<td>free online courses in Biology, Chemistry and Psychology</td>
</tr>
<tr>
<td>KS5</td>
<td>EdX</td>
<td>free online course in Medicine and Health</td>
</tr>
<tr>
<td>KS4-5</td>
<td>Crash Course</td>
<td>online courses in anatomy, biology, psychology etc.</td>
</tr>
<tr>
<td>KS5</td>
<td>Free Biology MOOCS</td>
<td></td>
</tr>
</tbody>
</table>

**Magazines and Journals**

| KS5   | The British Medical Journal                             |                                                                             |
| KS5   | The Lancet                                              |                                                                             |
| KS5   | Scitable                                                |                                                                             |
| KS5   | Nature                                                  |                                                                             |
| KS5   | MIT Technology review                                   | Biomedicine                                                                 |
| KS5      | Scientific American  |
| KS5      | Biochemical Society  |
| KS5      | Young Scientists Journal |
| KS5      | JSTOR - source of online medical and health related publications |

**Competitions**

| KS5      | Crest Gold Award - STEM Projects for students aged 16 plus |

| KS3-5 | **UK Biology competitions:**  
|       | - Biology Olympiad KS5  
|       | - Intermediate Olympiad KS4  
|       | - Biology Challenge KS3 |

| All     | **Oxford University Academic Competitions** |

**Events**

| All     | Museums across the country offer exhibitions and events. |
| KS4-5   | **Royal Society of Biology** offers events for secondary schools students |
| KS5     | **The Medic Portal** – Aspire event for prospective medical students (fee required) |
| KS5     | **Get into medicine** – live, virtual events to assist prospective medical students. |

**Resources for teachers**

<table>
<thead>
<tr>
<th>Resource</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Node Biologist</td>
<td>Ideas for experiments and other resources</td>
</tr>
<tr>
<td>TES Teaching Resources for Biology</td>
<td>Lesson plans worksheets and activities for secondary and students</td>
</tr>
<tr>
<td>Oxford Sparks teaching resources for Biology</td>
<td>Lesson plans and resources</td>
</tr>
</tbody>
</table>
| The British Science Association              | STEM competitions - CREST and Youth Challenge  
|                                               | British Science week  
<p>|                                               | Mass participation projects and more |</p>
<table>
<thead>
<tr>
<th>Resource</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>The Association of Science Education</strong></td>
<td>Resources for KS2-5 students, best practice teaching guide, outreach events, conferences - Small membership fee applies</td>
</tr>
<tr>
<td><strong>Royal Society of Biology</strong></td>
<td>TalkBiology online forum for teachers, CPD for teachers and technicians, careers advice and resources. - Small membership fee applies</td>
</tr>
<tr>
<td><strong>Medical Schools Council resources</strong></td>
<td>Useful links and tips for students and teachers</td>
</tr>
<tr>
<td><strong>Medicine Answered</strong></td>
<td>This guide covers how to support someone applying to Medicine if you are a parent or teacher of an applicant. Section one is aimed at parents, and section 2 is aimed at teachers. It is entirely free as part of Medicine Answered’s commitment to making high-quality information about a career in Medicine free and easily accessible to anyone who is interested</td>
</tr>
</tbody>
</table>