



# WIDER READING & DISCOVERY

## Resource List for A-Level Sciences

One of the best ways you stand out during your Sixth Form studies is through the amount of independent study you undertake outside of the classroom.

Regardless of your future plans, the ability to extend yourself and research independently into your interests is an invaluable skill – this will support your university applications and/or future job applications and interviews. All universities expect more than just classroom knowledge, which is where super-curricular activities come in; these are academic enrichment tasks that show you are interested in your studies beyond the school syllabus.

This 'Discovery List' has been put together to help you develop your interests not only in your chosen fields of study, but also in the wider world around you.



### iTunes U

- Free podcasts, video lectures, reading recommendations
- A whole range of resources from leading universities (Oxford, Yale)



### YouTube

- There is lots of helpful and insightful information on YouTube.
- Did you also know that YouTube has a dedicated educational channel, EDU?



### Radio 4

- Excellent range of archive material
- Recommended – Thinking Allowed / A History of the World / In Our Time

**coursera**



### Newspapers

- Some online versions are free
- Read more than one to develop your critical skills



## General Resources

**edX**

[www.edx.org](http://www.edx.org)



### MOOCs

Massive Open Online Courses

- These online courses provide videos, reading lists and activities – you often don't need to formally complete the course



### TED

- Watch talks from experts from a variety of fields

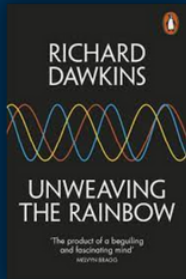
**Future Learn**



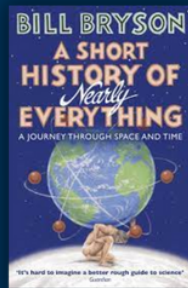
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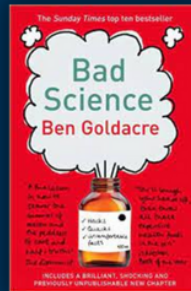
### General Science



Richard Dawkins  
*Unweaving the Rainbow*



Bill Bryson: A  
*Short History of Nearly Everything*



Ben Goldacre:  
*Bad Science*



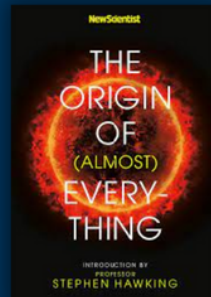
Randall Munroe:  
*What if?*



Randall Munroe:  
*How to*



Richard Feynman:  
*The Pleasure of Finding Things Out*



New Scientist: *The origin of (almost) everything*



- New Scientist
- BBC Science focus
- Popular science
- Wired



### Places to Visit

- The discovery museum. Newcastle upon Tyne
- Science museum. London
- History of science museum. Oxford
- Natural history museum. London

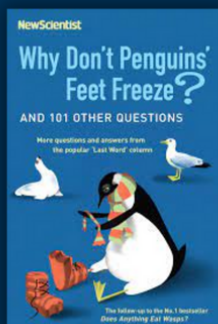
### Useful Websites

- <https://royalsociety.org/>
- <https://www.iflscience.com/>
- <https://science.howstuffworks.com/>
- <https://www.livescience.com/62824-about-us.html>
- <https://www.newscientist.com/>
- <https://nationalgeographic.com/>
- <http://nobelprize.org>
- <http://www.nhm.ac.uk> – The London Natural History Museum's website with lots of interesting educational material



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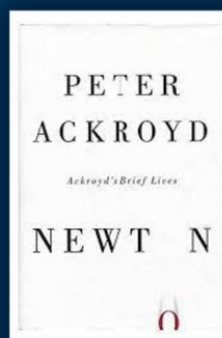
## Resource List for Physics



New Scientist  
*Why don't penguins' feet freeze?*



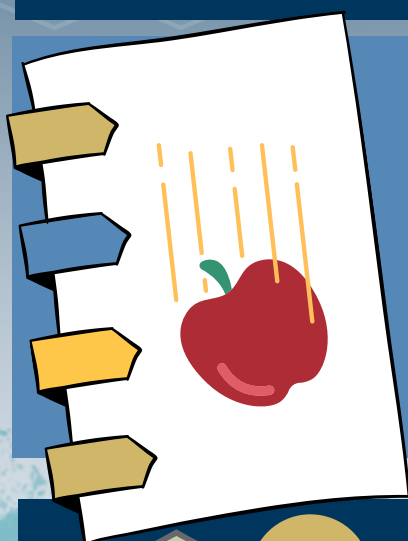
Stephen Hawking & Leonard Mlodinow:  
*The Grand Design*



Peter Ackroyd:  
*Newton*



Brian Cox and Jeff Forshaw:  
*The Quantum Universe*



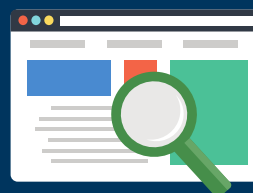
### Journals / Magazines

- Physics World
- Physics Review
- The Sky at night
- Popular mechanics



### Places of Interest

- National Space Centre. Leicester
- Jodrell Bank. Macclesfield
- Imperial war museum.
- Winchester science centre and planetarium
- Greenwich observatory
- Royal Air Force Museum. London
- Haynes Motor Museum. Sparkford



### Useful Websites

- [www.iop.org](http://www.iop.org) The Institute of Physics
- [www.sixtysymbols.com](http://www.sixtysymbols.com)
- [www.physicsworld.com](http://www.physicsworld.com)
- <http://home.web.cern.ch/topics/large-hadron-collider>

