**KS5 Further Biology Opportunities**

Work will be set weekly for every student via Google Classroom. This work is compulsory. Some students may find that they wish to be completing extra biology work during their day and so a list of extra activities has been compiled to cater for this.

**Free Open University courses**

These courses range in difficulty and time, but when completed you can print certificates of completion and topics may aid understanding as part of undergraduate study. If nothing else they are very interesting.

Full range of titles can be found: <https://www.open.edu/openlearn/free-courses/full-catalogue>

I have selected a few below

|  |  |  |  |
| --- | --- | --- | --- |
| **Title** | **Hours to complete** | **Level** | **Hyperlink** |
| Alcohol and human health | 6 | Introductory | [Alcohol and human health - OpenLearn - Open University - SDK125\_2](https://www.open.edu/openlearn/science-maths-technology/science/biology/alcohol-and-human-health/content-section-0?active-tab=description-tab) |
| What is a genome made of? | 4 | Introductory | [What is the genome made of? - OpenLearn - Open University - SK195\_2](https://www.open.edu/openlearn/science-maths-technology/science/biology/what-the-genome-made/content-section-0?active-tab=description-tab) |
| Infection and immunity | 12 | Introductory | [SDK100\_1 - OpenLearn - Open University - SDK100\_1](https://www.open.edu/openlearn/health-sports-psychology/infection-and-immunity/content-section-overview?active-tab=description-tab) |
| Biofuels | 5 | Introductory | [Biofuels - OpenLearn - Open University - S173\_1](https://www.open.edu/openlearn/science-maths-technology/biofuels/content-section-0?active-tab=description-tab) |
| Meiosis and mitosis | 8 | Introductory | [Meiosis and mitosis - OpenLearn - Open University - S103\_5](https://www.open.edu/openlearn/science-maths-technology/science/biology/meiosis-and-mitosis/content-section-0?active-tab=description-tab) |
| Studying mammals | 10 | Introductory | [Studying mammals: A winning design - OpenLearn - Open University - S182\_1](https://www.open.edu/openlearn/nature-environment/natural-history/studying-mammals-winning-design/content-section-0?active-tab=description-tab) |
| The science of nutrition and healthy eating | 24 | Introductory | [SNHE\_1 - OpenLearn - Open University - SNHE\_1](https://www.open.edu/openlearn/health-sports-psychology/health/the-science-nutrition-and-healthy-eating/content-section-overview?active-tab=description-tab) |
| Understanding antibiotic resistance | 24 | Introductory | [UAR\_1 - OpenLearn - Open University - UAR\_1](https://www.open.edu/openlearn/science-maths-technology/understanding-antibiotic-resistance/content-section-overview?active-tab=description-tab) |
| Pain and aspirin | 9 | Introductory | [Pain and aspirin - OpenLearn - Open University - SK185\_1](https://www.open.edu/openlearn/science-maths-technology/biology/pain-and-aspirin/content-section-0?active-tab=description-tab) |
| Learning, thinking, doing | 16 | Introductory | [Learning, thinking and doing - OpenLearn - Open University - T205\_1](https://www.open.edu/openlearn/science-maths-technology/engineering-technology/learning-thinking-and-doing/content-section-0?active-tab=description-tab) |
| Histology, microscopy, anatomy and disease | 12 | Introductory | [OUFL\_008 - OpenLearn - Open University - OUFL\_008](https://www.open.edu/openlearn/science-maths-technology/histology-microscopy-anatomy-and-disease/content-section-overview?active-tab=description-tab) |
| Vaccination | 14 | Intermediate | [Vaccination - OpenLearn - Open University - S320\_1](https://www.open.edu/openlearn/science-maths-technology/science/biology/vaccination/content-section-0?active-tab=description-tab) |
| The oceans | 15 | Intermediate | [The oceans - OpenLearn - Open University - S206\_1](https://www.open.edu/openlearn/science-maths-technology/the-oceans/content-section-0?active-tab=description-tab) |
| Gene manipulation in plants | 10 | Intermediate | [Gene manipulation in plants - OpenLearn - Open University - S250\_1](https://www.open.edu/openlearn/science-maths-technology/science/biology/gene-manipulation-plants/content-section-0?active-tab=description-tab) |
| Early development | 20 | Intermediate | [Early development - OpenLearn - Open University - SK220\_1](https://www.open.edu/openlearn/science-maths-technology/science/biology/early-development/content-section-0?active-tab=description-tab) |

**Websites**

Learn Genetics: [**https://learn.genetics.utah.edu/**](https://learn.genetics.utah.edu/)

DNA from the Beginning: <http://www.dnaftb.org/>

Living Conservation: <https://www.zsl.org/conservation>

The Hidden Life of a Cell: <https://www.dailymotion.com/video/xzh0kb>

SciShow: <https://www.youtube.com/user/scishow>

**BBC iPlayer**

The Wonder of Animals

Super Smart Animals

Tomorrow’s Food

Secrets of Skin

**Netflix**

Our Planet

Life

Diagnosis

What the Health

The Hunt

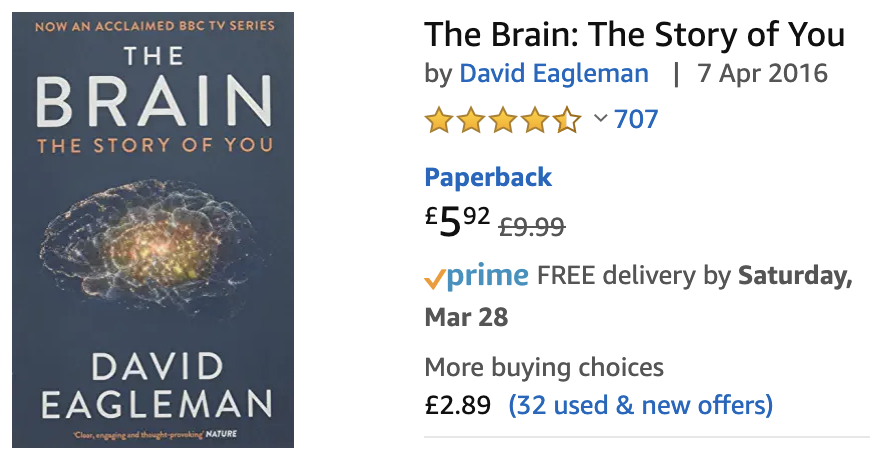
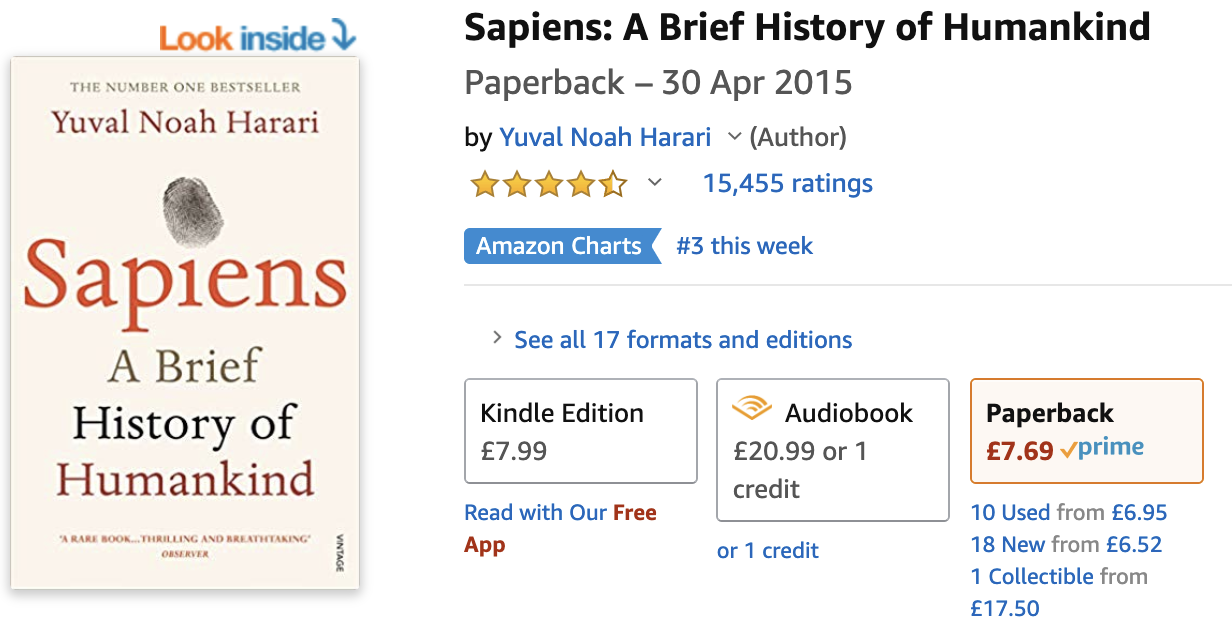
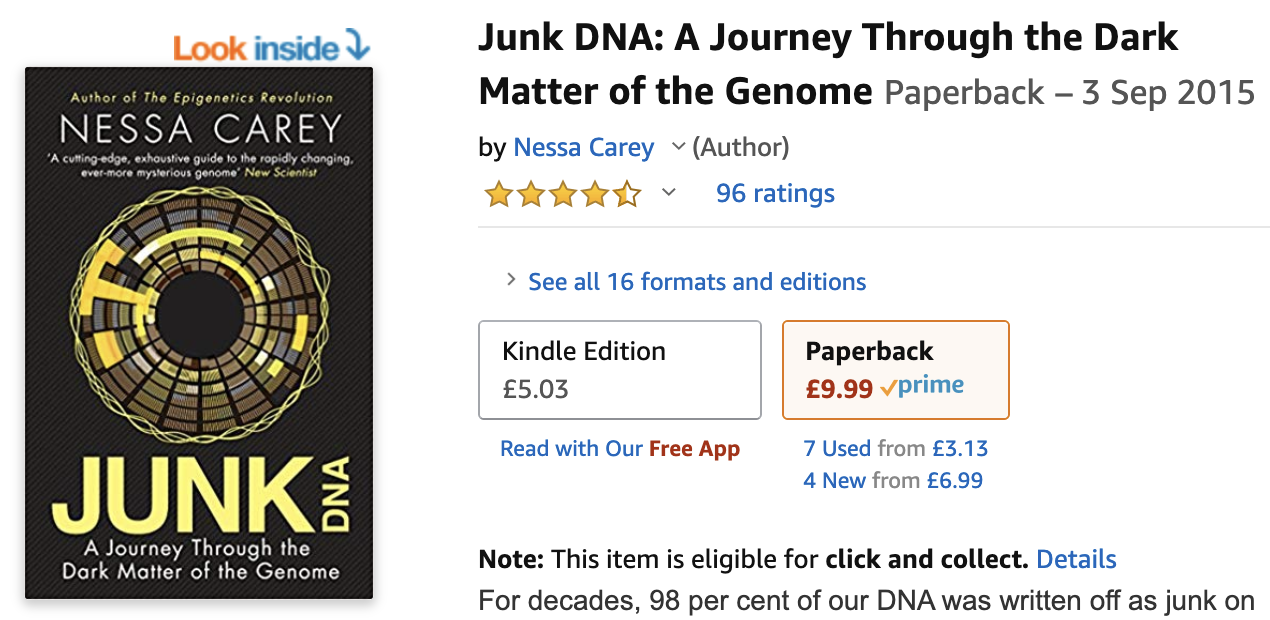
72 Dangerous Animals

**Seneca**

You can create a login for Seneca to practice topics and answer questions.

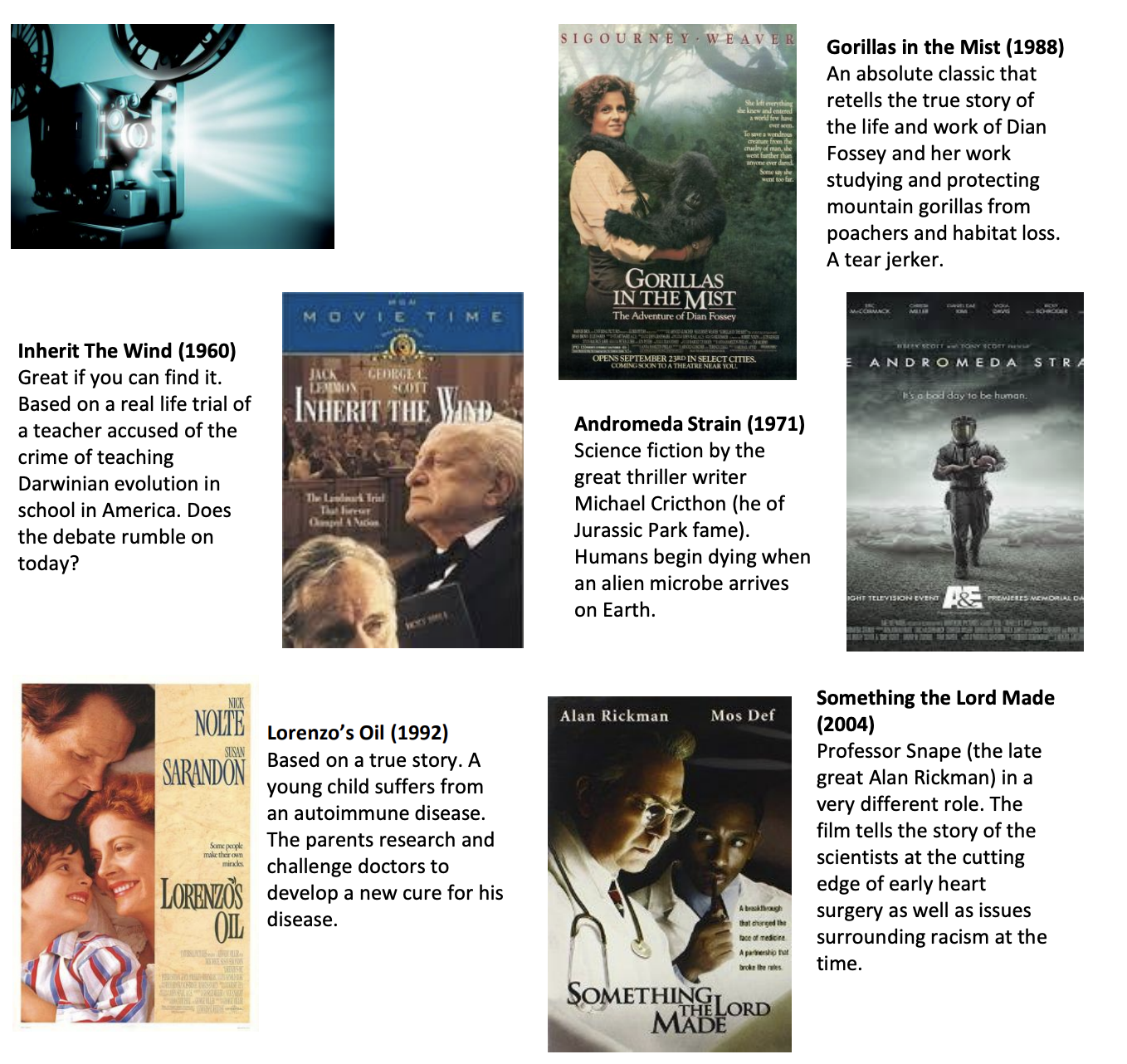
**Recommended Reading**

Kick back this summer with a good read. The books below are all popular science books and great for extending your understanding of Biology.



**Recommended Films**

Everyone loves a good story and everyone loves some great science. Here are some of the picks of the best films based on real life scientists and discoveries. You won't find Jurassic Park on this list, we’ve looked back over the last 50 years to give you our top 5 films you might not have seen before. Great watching for a rainy day.



**Presentation Recommendations**

If you have 30 minutes to spare, here are some great presentations (and free!) from world leading scientists and researchers on a variety of topics. They provide some interesting answers and ask some thought-provoking questions. Use the link or scan the QR code to view:

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