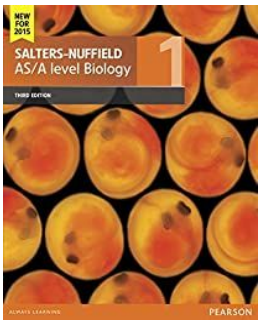
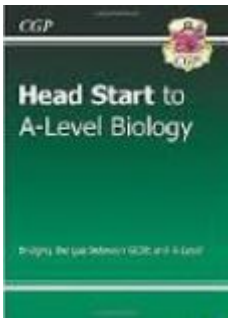
Salisbury 6th Form College
Aspiration • Excellence • Success





Taking biology at S6C?

Excellent choice!

If you can, it would be a good idea to get the textbook (left) and the CGP Head start guide (right).

Salters-Nuffield-Biology-Student-ActiveBook-Advanced Level

Head-Start-level-Biology-Level

You will need the textbook for the A level Biology course at S6C, so the sooner you can get hold of one the better. There is a link to it on Amazon above. You will begin at the start of the textbook on the heart, so it would be a good idea to read and try to understand about the heart and circulatory systems.
If you have the Head start guide, it will be very useful to work through the whole of the book, study the text and answer the questions. The section where your course will begin, is from pages 22 to 26 on the heart and circulatory systems.
Here are some YouTube links that you will find useful when studying the heart, each focuses on different areas to study, though there is some overlap:

https://www.youtube.com/watch?v=jfsnUFpwqhQ
https://www.youtube.com/watch?v=p8Jj-n5KdjM
https://www.youtube.com/watch?v=6vIyA-5W9gc

Principal: Simon Firth (01722 597970) office@salisbury6c.ac.uk www.salisbury6c.ac.uk
66-78 Tollgate Road, Salisbury, SP1 2JJ

When you have completed working through the texts and the videos, you should be able to;

1. label the structures of the heart and
2. know what the purpose/role of each is. (use diagrams to practise, make flashcards for each structure, brief notes on the back of what its role/purpose is).
3. Answer the questions at the end of these sheets.

Resources, activities, and projects

Below are some resources to use to further your knowledge of biology and some activities and projects for you to get involved in the whole subject area.

Some Resources

TED talks – if you have not already watched any of these, they are excellent speakers on many of the topics related to your A level.

The general TED site is;

https://www.ted.com/talks?sort=newest&topics%5B%5D=Science

and some to start with might be these;

https://www.ted.com/talks/lara_durgavich_an_evolutionary_perspective_on_human_health_and_disease

https://www.ted.com/talks/gerry_wright_how_can_we_solve_the_antibiotic_resistance_crisis

https://www.ted.com/talks/mary_ellen_hannibal_how_you_can_help_save_the_monarch_butterfly_and_the_planet

Excellent website for biology…

Learn Genetics from Utah University has so much that is pitched at an appropriate level for you and has lots of interactive resources to explore, everything from why some people can taste bitter berries to how we clone mice or make glow in the dark jelly fish.

http://learn.genetics.utah.edu/

At GCSE you learnt how genetic diseases are inherited. In this virtual fly lab you get to breed fruit flies to investigate how different features are passed on. (You will need Flash Player) http://cgslab.com/demo/

This BBC film shows the fascinating workings of a cell, a bit more complex than you may have come across so far.

https://www.bbc.co.uk/iplayer/episode/b01nln7d/ad/secret-universe-the-hidden-life-of-the-cell

Biodiversity and Evolution. Many Zoos have great websites, especially London Zoo. Read about some of the case studies on conservation, such as the Giant Pangolin, the only mammal with scales. https://www.zsl.org/conservation

Here is the education page of Marwell Zoo

https://www.marwell.org.uk/education/free-resources/post-16

A useful resource on some sections of biology is Khan Academy website. From here click on the topic to see the full list of videos available.
https://www.youtube.com/user/khanacademy/playlists?view=50&sort=dd&shelf_id=3
There are a great many excellent sites to look at on YouTube, it is always useful to look at a variety of these – but beware, not all are great. The skill is finding ones that tell you what you need to know and suit this syllabus.

Activities and Projects
Why not take part in a citizen science project? You can google these as there are lots out there – perhaps you could even set one of your own up! Somewhere you could start is at the BBC, but there are plenty others .
https://www.bbc.co.uk/programmes/articles/4BZZdHm64S051q2lnZ1Nr7p/citizen-science

https://www.bumblebeeconservation.org/

Bumblebee Conservation Trust

https://www.wiltshirewildlife.org/pages/category/conservation

Wiltshire Wildlife Trust

https://www.dorsetwildlifetrust.org.uk/

Dorset Wildlife Trust

https://www.bigbutterflycount.org/

big butterfly count

https://www.eoceans.co/home

eOceans

Something to think about is MOOCs doing a Mooc will look good on your UCAS personal statement, they are free – but watch out, there are start and finish dates so plan ahead! You can start here:

MOOC

Find interesting groups on Facebook:

Nature -the profile page for nature.com for news, features, research and events from Nature Publishing Group
Marin Conservation Institute –publishes the latest science to identify important marine ecosystems around the world.
National Geographic -since 1888, National Geographic has travelled the Earth, sharing its amazing stories in pictures and words.
Science News Magazine -Science covers important and emerging research in all fields of science.
BBC Science News -The latest BBC Science and Environment News: breaking news, analysis and debate on science and nature around the world.
Or Twitter or Instagram or……