

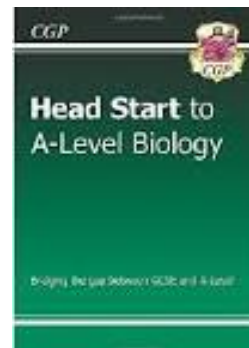
A Level Biology Summer Bridging Project

Due in: September

Task 1 – Get organised with your equipment!

Make sure you have the following items and bring them with you to your first lesson:

- Clear 30cm ruler
- Scientific calculator [Casio FX-83GTPLUS or similar]
- Ring binder folder (Green)
- Set of 10 extra-wide dividers for your folder
- Pad of A4 lined paper
- Pens (black x2, x2 green and highlighter)
- Pencil (x2) [plus a sharpener, if not mechanical pencils]
- Rubber



Task 2 – Keep your Biology brain in gear and warmed up!

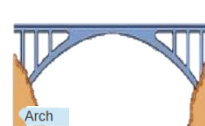
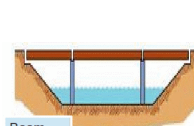
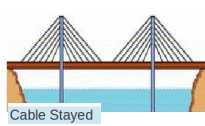
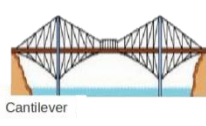
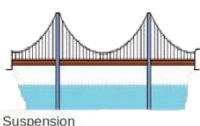
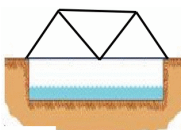
A level Biology is a big step up from GCSE and over 10 weeks a lot can leave your grey matter! To give yourself the best chance and to avoid feeling overwhelmed in September, you need to make sure that you do not forget the core content from your GCSE course and you should give yourself a bit of a head start on the new vocabulary and concepts you will meet.

- **Purchase the book “Head Start to A-Level Biology”** [Publisher: CGP. ISBN: 978 1 78294 279 5] - it is available in all good book stores and through Amazon.
- Work through the Autumn Term Topics
 - Biological Molecules
 - Cells
- Your work must be laid out clearly and legibly. Each chapter should be given an underlined title and the page number
e.g. Section 2 – Cell structure – Microscopes Pg 7
- After each set of questions, in **green** pen, self assess your work using the answers at the back of the book.
- If you get any questions incorrect, re-read this section of the book and then correct your answers.
- Star any pages in the book you found particularly tricky – we will discuss this information in the first week back, when I will also check to see this work in full.
- Start right by filing your work away carefully in your new folder in your first divider section, and bring this to your first lesson!

Task 3 – Maths in Biology

Go to the following link and read through the mathematical skills expectations for AQA A Level Biology:

<https://www.aqa.org.uk/subjects/science/as-and-a-level/biology-7401-7402/mathematical-requirements-and-exemplifications>



Task:

Design a student handbook about all of the maths skills required during the two-year course.

You should include:

- Sub headings for each skill
- Examples of each skill
- Diagrams where necessary
- Student-friendly language/step-by-step guides on how to do each

Optional Extras

You have a long Summer ahead you – in case the above is not enough...

Download the TED Talks app or visit the TED Talks website. Listen to some talks on Biologically related topics (this is very broad reaching!) Send me a link to any you find really interesting.

Research the available Biology and Science podcasts, YouTube channels, apps & websites. Send me your recommendations.

Read “Essential Maths Skills for A-Level Biology”
Publisher: CGP
ISBN:9781782944713

Check out the websites and events from the amazing:

- Royal Society: <http://www.rigb.org/>
- <https://royalsociety.org/science-events-and-lectures/>
 - Royal institute of Biology
 - <https://www.rsb.org.uk/events>

