

The Buckingham School

A Level Biology

Summer Project 2019



Preparation work

1. Download the link to the Big Picture website – bigpictureeducation.com/issues.
2. On their home page, go to 'about us' and sign up.
3. Return to the home page, scroll down and find the issue called The cell section downloads
4. Click on the words The Cell.
5. Download all files, you need (I have put copies of all these on Google Classroom – code cyd01bj)
 - a. to read/print off the PDF version of the 'Big Picture' magazine,
 - b. print off and study the poster on 'The Cell' – A3 colour would be better!

Tasks

1. Print off the worksheets and pictures on cells and microscopy. Use the media/text books/the video clips in the folder to complete the worksheets/tasks on:
 - a. AS microscopy worksheets
 - b. AS cell worksheets – all about parts of cells. (I can supply you with a text book to give you some help with this work, too!)
2. Get familiar with and learn the parts of a cell and the function/special features of those parts – that is where the cell poster comes in! There is more on the google classroom (code cyd01bj) use 'The Cell & Microscopy Media Pack' to guide you too, like video clips as well!
3. When you come back in September, you should have the work sheets on cell structure, organelles and microscopy finished, AND be ready for a test on 'Cells, Cell Structure and Cell Adaptation.'
4. There is a written task for you called: Everything natural is good and everything that is unnatural is bad. Discuss.
5. FINALLY (yes there is a 'FINALLY'), you will be expected to read AND briefly review one of two books (or maybe even both, if you are an avid reader):
 - 'Bad Science', by Ben Goldacre, about the truth in science (Brilliant!)
 - 'A Short Story of Nearly Everything', by Bill Bryson (equally brilliant!)

The idea is that you really do need to read around your subject – university interviewers like to see that! Both books will set you straight on how to approach and understand real science and who really did what! The truth is out there! There is a further extension reading list of books on another word document – all really good!