



Summer Preparation Work

Studying Biology at Wilberforce is all about developing your knowledge and skills so that you can achieve the best results and go onto excellent destinations. Our past students have gone on to study marine biology, medicine, veterinary science, dentistry, biomedical science, zoology and many other courses. You will study and develop your skills as a practical scientist when carrying out dissections, improving your approach to light microscopy and getting involved in genetic engineering in our purpose-built labs. The course is fast paced and it's crucial that you complete this piece of work to the best of your ability so that you can start strong.

Please be aware that prep work is an important aspect of your induction onto all courses at Wilberforce Sixth Form College. Please have this ready to hand in during enrolment or to your course teacher in the first week of lessons.

Kind regards

Ashley Howe

Faculty Head for STEM

Task 1 - Research

Research **prokaryotes**, **eukaryotes** and **viruses** in the context of the following research questions

<https://youtu.be/RQ-SMCmWB1s>

<https://www.cliffsnotes.com/study-guides/biology/microbiology/prokaryotes-and-eukaryotes/introduction-to-prokaryotes-eukaryotes>

https://bigpictureeducation.com/sites/default/files/bp_files/influenza%20special%20edition/wtdv026878~4.pdf

Task 2 - Create

Divide an A3 sheet into quarters and in each answer the following questions. If you don't have A3, 2 A4 sheets will be fine (you can use both sides if you need to)

- How do each of these organisms differ in their biochemical structure?
- Are they made up from cells? If not, how do they reproduce?
- What do we know about the genetics of these organisms?
- What does the research say about the evolution of these organisms?

Task 3 - Question

Have a go at these quizzes and screenshot your scores. Make sure to show your teacher how you have done.

<https://www.cliffsnotes.com/study-guides/biology/biology/prokaryotes-and-viruses/quiz-prokaryotes-and-viruses>

<https://bigpictureeducation.com/quiz-flu-and-you>

