



A Level Biology Transition Work

Course information:

Students returning to study A level Biology in the Urmston Grammar School Sixth Form will benefit from some background work in preparation for advanced level studies and to help with the transition from GCSE to A level. These activities will help you to tackle the first two topics that you will cover in September. Use the link below to access the biology specification and take a look at the first two topics. Topic areas for you to focus on:

- 3.1 Biological molecules (pages 11-14)
- 3.2.1 Cell structure (pages 19-20)

Course Specification:

<https://filestore.aqa.org.uk/resources/biology/specifications/AQA-7401-7402-SP-2015.PDF>

You will find it useful to make some notes and diagrams to illustrate this content, particularly on the structure of cells and important molecules (carbohydrates, proteins and fats).

Tasks to be completed:

1. Print out the pdf document entitled: **Biology Transition Work – Part 2**
2. Read the introductory information on pages 1-9 (*please note: information for AS Biology describes year 12 A level Biology and is not offered as a separate course*). (30 mins)
3. Complete Activities 1-3 on pages 11-12 that look at the use of SI units. (2 hours)
4. There are 12 Required Practicals that must be completed for A level. Complete Activity 4 on page 13. (30 mins)
5. Cell biology examines the features of prokaryotic and eukaryotic cells in more detail. Complete Activity 5 on pages 14 & 15. (2 hours)
6. Photosynthesis and Respiration are essential processes in living organisms and are carried out in cells. Complete Activity 6 on page 16. (2 hours)
7. The movement of molecules across cell membranes is important in many processes. Complete Activity 7 on page 17. (1 hour)
8. Genetic inheritance is studied in year 13 of A level Biology. Activity 8 will be familiar from GCSE Sciences. Complete page 19. (1 hour).
9. The analysis, presentation and interpretation of data produced in completing the A level Biology Required Practicals is an important skill. Complete Activity 7 on pages 21 to 25. (4 hours)
10. Revision. You must prepare for an induction assessment in the first few weeks of your course. Revise the content studied in your transition guide (specification references: 3.1.1, 3.1.2 and 3.2.1). (4-6 hours)

Date for completion: You must complete your transition guide and submit to your class teacher for the week beginning Monday 7th September.

If you have any questions:

Contact Dr Richards (Head of Biology) by e-mail at: orichards@urmstongrammar.org.uk.