

Biology and Medical Science 6th Form Transition

These activities will help you to bridge the gap between GCSE and AS Biology and Medical Science Level 3. Both courses have similar content in Unit 1. We will focus on 3 topics: Cells, Biochemistry and Enzymes.

Links to iTunesU courses.

Download the iBooks for Unit 1 here: [AS Biology Unit 1](#)



AS Unit 1
Nicholas Alford
📖 115 Pages

[Medical Science Unit 1](#)



Unit 1 Human Health and Disease
Nicholas Alford
📖 143 Pages

Cells

You will find out at KS5 that cells contain many more organelles than we told you about at GCSE. Read the chapter in the iBook relevant to you and make a copy of this [Biology Cells presentation](#) or [Medical Science Cells presentation](#) and add information on each slide to describe the functions of each organelle. Include labelled images on each slide that show electron micrographs of the organelles.

Biochemistry

The University of East Anglia runs a MOOC (Massive Open Online Course) called "Biochemistry: The Molecules of Life".

Enroll on the course [here](#).

This free online biochemistry course outlines the background and history of the field, and its contemporary significance in the life sciences. It can be started on 18th May and another will start on 20th July.

Enzymes

You know from GCSE that enzymes break down food molecules in our digestive system. Use the iBook and other sources to sketch graphs to show the effects of:

1. Temperature
2. pH
3. Enzyme concentration
4. Substrate concentration
5. Competitive inhibitors
6. Non-competitive inhibitors.

Use PacMan diagrams to explain the shape of each graph.

If you require any help please email Mr Alford – nalford@stcyres.org or Mrs Flew cflew@stcyres.org