

What topics will we study?

Who will the teachers be?

Is it hard?

Welcome to



I'm not sure if I really want to take Biology or not...

Do I need Biology to get in to xxxxx at uni?

Why do we need English and Maths to get on to the course?

Entry Requirements

4 GCSEs Grade 9-6 including:

Combined Science Grade 6,6

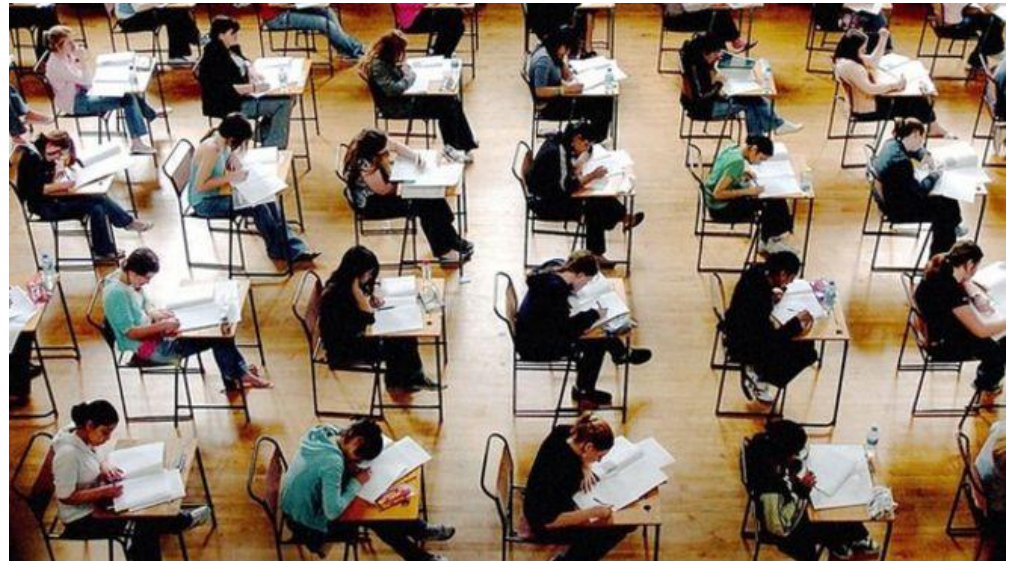
or

2 Separate Sciences (Biology, with Chemistry or Physics) Grade 6,6

and

Grade 5 in Mathematics

Grade 5 in English

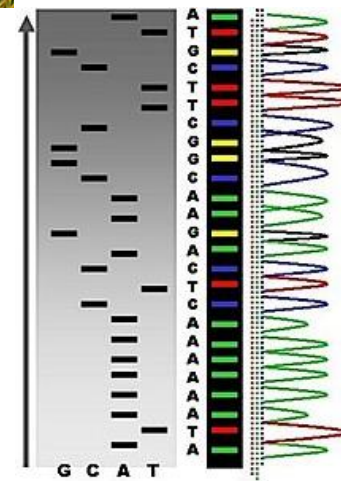
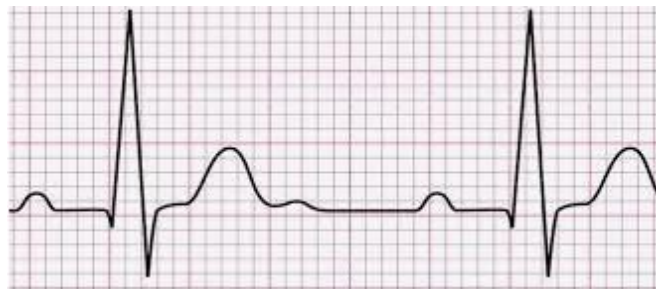
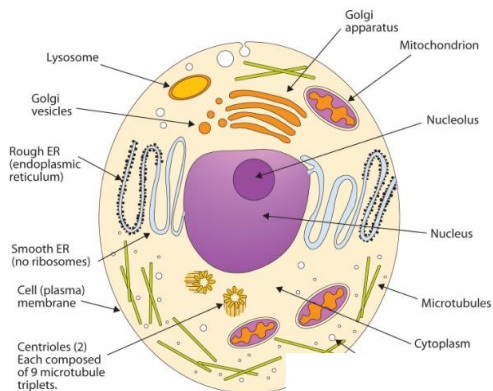


Course Overview

- 8 lessons per fortnight, usually 2 different teachers
- Science Club for Biology help and support

Exam questions cover

- Application of practical skills
- How Science Works
- Lots of exam style questions in class



Content Overview	Assessment Overview	
<p>Content is split into six teaching modules:</p> <ul style="list-style-type: none"> Module 1 – Development of practical skills in biology Module 2 – Foundations in biology Module 3 – Exchange and transport Module 4 – Biodiversity, evolution and disease Module 5 – Communication, homeostasis and energy Module 6 – Genetics, evolution and ecosystems <p>Component 01 assesses content from modules 1, 2, 3 and 5.</p> <p>Component 02 assesses content from modules 1, 2, 4 and 6.</p> <p>Component 03 assesses content from all modules (1 to 6).</p>	<p>Biological processes (01)</p> <p>100 marks</p> <p>2 hour 15 minutes written paper</p>	<p>37%</p> <p>of total A level</p>
	<p>Biological diversity (02)</p> <p>100 marks</p> <p>2 hour 15 minutes written paper</p>	<p>37%</p> <p>of total A level</p>
	<p>Unified biology (03)</p> <p>70 marks</p> <p>1 hour 30 minutes written paper</p>	<p>26%</p> <p>of total A level</p>
	<p>Practical Endorsement in biology (04)</p> <p>(non exam assessment)</p>	<p>Reported separately</p> <p>(see section 5f)</p>

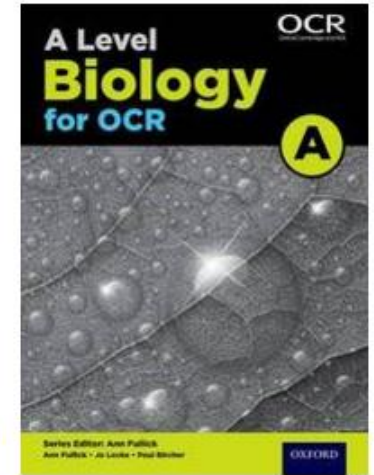
Practical Endorsement

- Reported on certificate as a 'pass' or 'not classified'
- e.g. Biology, A* (Endorsement, Pass)
- 12 assessed practical activities

Equipment

What you need to get ready for September:

- A4 folder
- Dividers
- A4 lined paper/ note pad
- Colouring pencils - including red, blue, green, yellow
- Calculator
- Pen, pencil, ruler, rubber, pencil sharpener



We will provide:

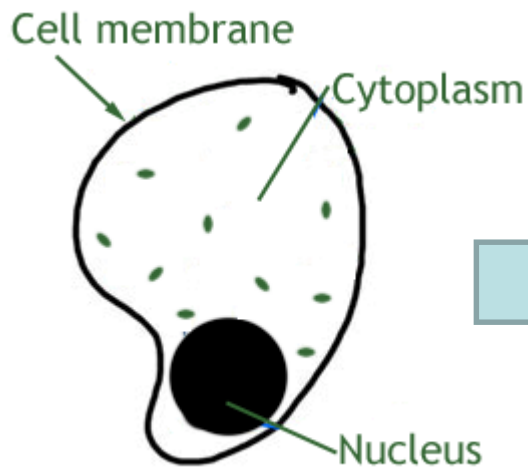
- Lab Book for Practical Endorsement evidence
- Textbook (deposit required), plus electronic version (Kerboodle)

You will probably need to buy:

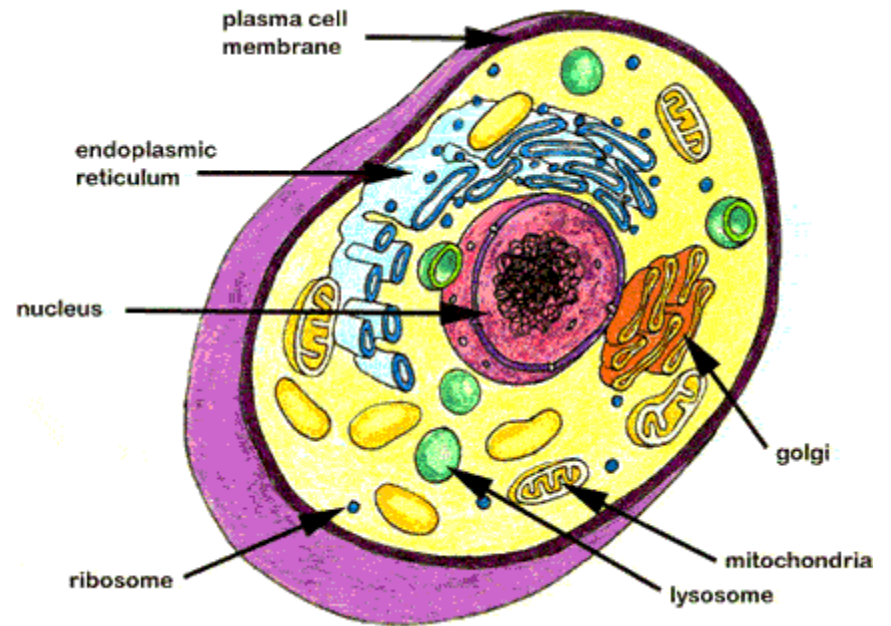
- Maths Skills for Biologists



The Jump



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Homework

A-Level BIOLOGY Summer 2020 Holiday Homework

PART 1

During the first week of your A-Level Biology course you will sit a test containing questions taken from real A-Level papers that test your GCSE knowledge, How Science Works and Application skills. You do not need to have been taught any of the A-Level content to be able to complete these questions. To prepare for this test, you will need to refresh your memory about the following topics **towards the end of the summer holidays** (it's important to have a break, we recommend doing this in the last week of the holidays):

- Digestion
- Osmosis
- Gas exchange
- Enzymes
- Factors affecting rates of diffusion
- Cells, tissues and organs
- Transpiration
- Answering describe and explain questions

The aim of this test is to ensure that your GCSE Biology knowledge is at the level required to study A-Level Biology and if you need any additional support at the start of the course. If you do, you will be asked to attend Biology after school help club throughout Term 1.

Test Date: First week of A-Level Biology lessons, this **will not** take place in the first lesson after the summer holidays. We will let you know the exact date in September.

PART 2

There are 4 main types of microscope, light microscopes, transmission electron microscopes, scanning electron microscopes and laser scanning confocal microscopes. Produce a factsheet about microscopes that includes the following information for each type:

- Detailed information about how the microscope works
- Advantages of using each type of microscope
- Disadvantages of using each type of microscope

You will need to spend time researching microscopes using A-Level textbooks and the internet and provide a list of 3 or more references at the end of your factsheet. If you include diagrams, please refer to them in your text.

Factsheet due in: First lesson back after the summer holidays.

RECOMMENDATION

The 'Head Start to Biology' book (see picture) aims to bridge the gap between GCSE and A-Level. It is not compulsory, however you may like to purchase this (WHSmith/Amazon etc.) - the questions are useful to complete before starting the A-Level Biology course in September.



Activity 1: Stop a stopwatch (use a phone if you have one available) at exactly 1 second.



Activity 2: Look in a mirror. Close your eyes for about 10 seconds. Open your eyes. What happens to the size of your pupil?

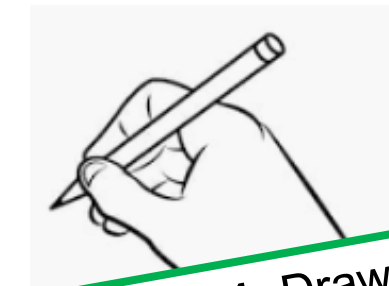


Have a go at as many of the activities that you are able to

Activity 3: Find a penny (or any other coin in your house). Have a guess. How many drops of water do you think you can balance on a penny?



Activity 5: In the 'chat' function, type in as many biology key words that you can think of – don't press enter until told to do so.



Activity 4: Draw a diagram on paper that reminds you of Biology.

