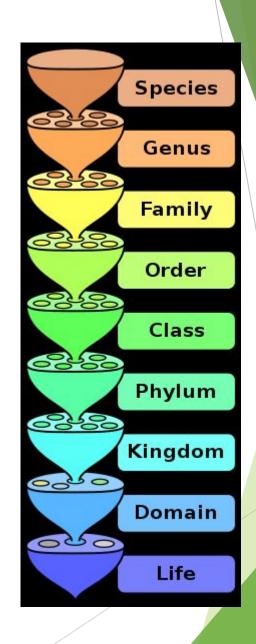
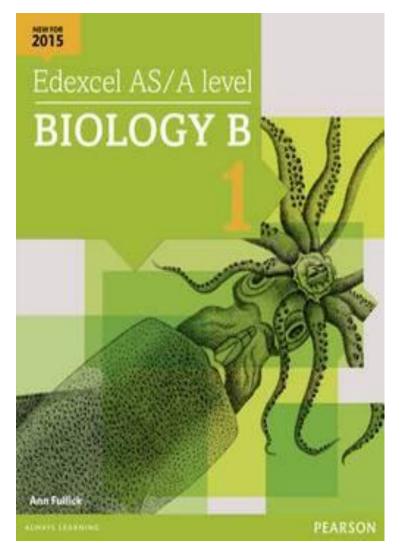
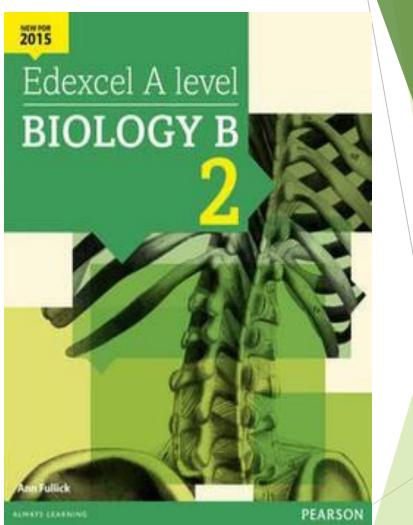


#### A level Biology









#### Introduction

You will be starting a two year Biology A level course.

The specification we are following is Edexcel Biology B.

The course is 100% assessed externally at the end of year 13 by 3 exam papers.

You will also need to complete a number of core practicals over the two years which cover specific skills and techniques

#### Assessment at the end of the two years

Paper 1 – Advanced Biochemistry, Microbiology and Genetics - 90 marks, 30% weighting, 1 hour 45 minutes

- Topic 1: Biological Molecules
- Topic 2: Cells, Viruses and Reproduction of Living Things
- Topic 3: Classification and Biodiversity
- Topic 4: Exchange and Transport
- Topic 5: Energy for Biological Processes
- Topic 6: Microbiology and Pathogens
- Topic 7: Modern Genetics

Paper 2 – Advanced Physiology, Evolution and Ecology - 90 marks , 30% weighting, 1 hour 45 minutes

- Topic 1: Biological Molecules
- Topic 2: Cells, Viruses and Reproduction of Living Things
- Topic 3: Classification and Biodiversity
- Topic 4: Exchange and Transport
- Topic 8: Origins of Genetic Variation
- Topic 9: Control Systems
- Topic 10: Ecosystems

#### Paper 3 – General and Practical Principles in Biology - 120 marks, 40% weighting, 2 hours 30 minutes

- All topics across the full A level specification.
- Half of the paper will focus on testing students' knowledge and understanding of practical skills and techniques.

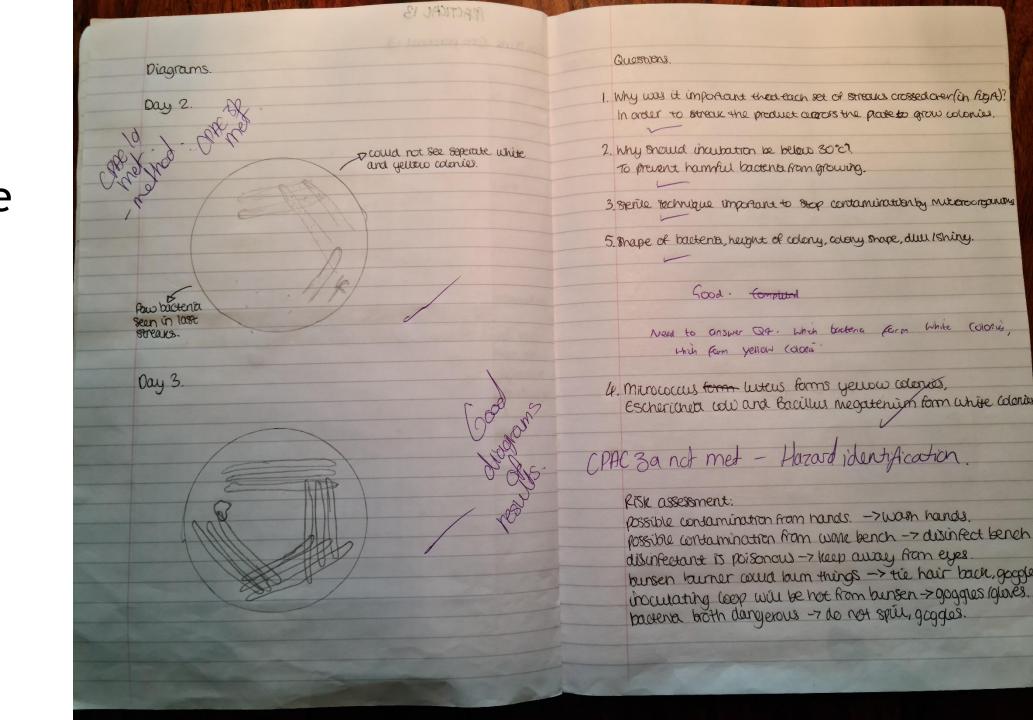
#### More information about core practicals

"A level specifications must include at least 12 core practicals to provide suitable opportunities for students to gain sufficient practical experience over the course of their two years of study." **Pearson Education Ltd 2015** 

	Data	Questions	Notes	sign off
Practical	Date	mark		Fc.
1: Investigate a factor affecting the initial rate of an enzyme controlled reaction.	27/11/18		(Ompletza.	
2: Use of the light microscope, including simple stage and eyepiece micrometers and drawing small numbers of cells from	DIalis	518	Completed .	FC.
a specialised tissue. 3: Make a temporary squash preparation of a root tip to show stages of mitosis in the meristem under the light microscope.		9/18	Completed .	fc. Fc-
4: Investigate the effect of sucrose concentrations on pollen tube growth.	1411111		(Ompleted)	vC-
5: Investigate the effect of temperature on beetroot membrane permeability.	512118		Completed"	7c
6: Determine the water potential of a plant tissue.	10/2/19		Completed.	Fc.
7: Dissect an insect to show the structure of the gas exchange system.	12/2/18		Completed.	tc.
8: Investigate factors affecting water uptake by plant shoots using a potometer.	30/1/20		Completed.	· Fe`

# Which core practicals will you complete during year 12?

How are the core practicals assessed?



### How to be organised in biology

You will need a ring binder (which you will bring into school every lesson) and a lever arch folder (which you will keep at home, unless it is folder check time).

For each topic, you will be given a topic cover sheet which you will need to keep in your ring binder for each topic you are working on, alongside assessed work for each topic, handouts, your notes etc

As you move onto a new topic, transfer the work for the previous topic into your lever arch folder

Your core practical work will be kept in a ring binder at school and will not be taken home. On occasions you may be able to take home work from a single core practical to complete it and then bring it again the following lesson

## Transition tasks to be completed

#### Transition task 1 – Should take 5 hours

Complete the student guide booklet and answer the questions – Due date **4<sup>th</sup> September** 

Revise the following topics for a baseline assessment in the second biology lesson in September

- DNA structure and genetics
- Protein synthesis and enzymes
- Cell structures
- Biodiversity
- Heart and blood flow

#### Transition task 2 – Should take 3 hours

Complete the higher GCSE question papers (paper 1 and 2 from 2019) - Due date **4**<sup>th</sup> **September** 

## Any other questions?

