

ADVANCED HIGHER BIOLOGY 2009/10

Welcome to Advanced Higher Biology. Congratulations on what you have achieved so far. Here is some information that you may find helpful.

Course Structure

Advanced Higher Biology consists of two compulsory units:

- Cell & Molecular Biology
- Environmental Biology.

Each of these units takes around 40 hours to complete. The Cell & Molecular Biology unit will be taught by Miss Belille and the Environmental Biology unit will be taught by Mrs Ginns.

In addition there is a short (20-hour) unit of study. The unit to be taught (Physiology, Health and Exercise or Animal Behaviour) and the teacher teaching it will be decided at a later date.

As part of the Advanced Higher you are required to submit both a written report on an experiment and a 2000 word Investigation. The investigation can be on any agreed topic and much of the investigation will be completed on a self-study basis.

A number of field-trips will be offered to complement and extend upon the work being carried out in class.

Getting an Advanced Higher Biology Pass

To get an award in Advanced Higher Biology you will require to pass three (internally assessed) end of unit tests/NABs, submit a written report on an experiment, submit an Investigation and pass the final exam in May.

The final exam consists of three sections: Section A - Multiple Choice on Units 1 and 2 (KU, PS and PA), Section B - Short Answer Questions on Units 1 and 2 (KU, PS, PA and essay writing) and Section C - Short Answer Questions on Unit 3 (KU, PS and PA).

The exam paper is worth a total of 100 marks. The investigation is worth 25 marks (and therefore determines 1/5 of your grade).

Resources and Equipment

The following equipment will be supplied by your teacher:

- Jotters
- Paper
- Textbook
- Revision notes
- Revision CD

Other useful resources can be found in the Advanced Higher Biology icon on your school desktop. You will also find in class a variety of textbooks which may help you and the school will issue you with a password for the online Scholar revision web-site.

TIMELINE

<u>W/Comm.</u>	<u>Unit 1: Cell and Molecular Biology (Miss Belille)</u>	<u>Unit 2: Environmental Biology (Mrs Ginns)</u>	<u>Unit 3/Investigation (Miss Belille/Mrs Ginns)</u>
1-Jun	Introduction to Advanced Higher. Distribution of		Investigation: Introduction
8-Jun	Topic 1 - Prokaryotic & Eukaryotic Cells	Topic 1 - Energy Flow	
15 - Jun	Topic 2 - Cell Growth, Cell Cycle & Differentiation	Topic 1 - Energy Flow	
22 - Jun	Topic 2 - Cell Growth, Cell Cycle & Differentiation	Topic 2 - Circulation of Nutrients	
29 - Jun	Topic 2 - Cell Growth, Cell Cycle & Differentiation	Topic 2 - Circulation of Nutrients	
	SUMMER HOLIDAY	SUMMER HOLIDAY	
17 - Aug	Topic 3 - Cell & Tissue Culture	Topic 3 - Biotic Interactions	Investigation: Daybooks issued
24 - Aug	Topic 3 - Cell & Tissue Culture	Topic 3 - Biotic Interactions	
31 - Aug	Topic 4 - Molecules	Topic 4 - Symbiotic Relationships	
7 - Sep	Topic 4 - Molecules	Topic 4 - Symbiotic Relationships	Investigation: Daybooks marked
14 - Sep	Topic 4 - Molecules	Topic 4 - Symbiotic Relationships	
21 - Sep	Topic 5 - Membranes & Cytoskeleton	Topic 5 - Costs, Benefits & Consequences	
28 - Sep	Topic 5 - Membranes & Cytoskeleton	Topic 5 - Costs, Benefits & Consequences	Investigation: Topic finalised. Daybooks marked
5 - Oct	Topic 5 - Membranes & Cytoskeleton	Topic 6 - Survival Strategies	
	OCTOBER HOLIDAY	OCTOBER HOLIDAY	
26 - Oct	Topic 6 - Catalysis	Topic 6 - Survival Strategies	
2 - Nov	Topic 6 - Catalysis	Topic 6 - Survival Strategies	
9 - Nov	Topic 6 - Catalysis	Topic 7 - Succession	Investigation: Plan (1 st draft). Daybooks marked
16 - Nov	Topic 7 - Signalling	Topic 7 - Succession	
23 - Nov	Topic 7 - Signalling	Topic 8 - Effects of Intensive Food Production	
30 - Nov	Topic 8 - DNA: Human Genome Project	Topic 8 - Effects of Intensive Food Production	
7 - Dec	Topic 9 - DNA: Human Therapeutics	Topic 9 - Increase in Energy Needs	Investigation: Finalised Plan. Daybooks marked
14 - Dec	Topic 9 - DNA: Human Therapeutics	Topic 9 - Increase in Energy Needs	
	CHRISTMAS HOLIDAY	CHRISTMAS HOLIDAY	
4 - Jan	Topic 10 - DNA: Forensic Uses	Topic 10 - Pollution	
11 - Jan	Topic 10 - DNA: Forensic Uses	Topic 10 - Pollution	
18 - Jan	Revision	Revision	
25 - Jan	Revision/NAB	Revision/NAB	
1 - Feb	Revision/Prelim	Revision/Prelim	
8 - Feb			Topic 1/Investigation: Practical Work
15 - Feb			Topic 2/Investigation: Practical Work
22 - Feb			Topic 3/Investigation: Practical Work
1 - Mar			Topic 4/Investigation: Report Writing
8 - Mar			Topic 5/Investigation: Report Writing
15 - Mar			Revision/Investigation: Report Writing
22 - Mar			NAB/Prelim/Investigation: 1 st draft collected
	EASTER HOLIDAY	EASTER HOLIDAY	EASTER HOLIDAY
12 - Apr	Revision	Revision	Revision/Investigation: Final draft collected
19 - Apr	Revision	Revision	Revision
26 - Apr	Revision	Revision	Revision
May	Revision	Revision	Revision

