

## VCE Biology Unit 3 and 4 – 2015

## School Assessed Coursework (SAC)

## Unit 3 – Signatures of life - 20% of your study score

Outcomes	Marks allocated	Assessment tasks
Outcome 1 – analyse and evaluate evidence from practical investigations related to biochemical processes.	50	- an investigation of cellular respiration or photosynthesis - an investigation of enzyme action - an investigation of the movement of substances across membranes
Outcome 2 – describe and explain the use of the stimulus-response model in coordination and regulation and how components of the human immune system respond to antigens and provide immunity.	25	A report of an investigation or simulation of a selected organism's response to a specific chemical or physical signal. <b>AND</b>
	25	A response to an issue or an aspect related to the immune response using any one or a combination of the following: <ul style="list-style-type: none"> <li>• Evaluation of research</li> <li>• Data analysis</li> <li>• Essay</li> <li>• Annotated poster</li> <li>• Media response</li> <li>• Oral presentation using two or more data types</li> <li>• Multimedia presentation</li> <li>• Test</li> <li>• Visual presentation</li> </ul>

## Unit 4 – Continuity and change - 20% of your study score

Outcomes	Marks allocated	Assessment tasks
Outcome 1 – analyse evidence for the molecular basis of heredity, and patterns of inheritance.	50	- an investigation related to a genetic cross - an investigation using a DNA tool or manipulation technique - an investigation or simulation related to mitosis and/or meiosis.
Outcome 2 – describe and explain the use of the stimulus-response model in coordination and regulation and how components of the human immune system respond to antigens and provide immunity.	25	An oral or written report that demonstrates evolutionary relationships using first- or second-hand data. <b>AND</b>
	25	A response to an issue related to human intervention in evolutionary processes using any one or a combination of the following: <ul style="list-style-type: none"> <li>• Evaluation of research</li> <li>• Data analysis</li> <li>• Essay</li> <li>• Annotated poster</li> <li>• Media response</li> <li>• Oral presentation using two or more data types</li> <li>• Multimedia presentation</li> <li>• Test</li> <li>• Visual presentation</li> </ul>

To satisfy the requirements for the first Outcome for each Unit, you will each be given a notebook to write up each investigation on the day of the practical task, then you will hand the notebook back to your teacher, you will receive one final mark for the practical portfolio. Also, there will be official school forms to sign on the day of the investigation and any other assessments.

It is expected you know how to write up scientific reports.

**Externally Assessed Examination: 60% of your study score**

This will be a two and a half hour examination at the completion of the course. **The exam will cover all the material from both units 3 and 4.** Date and time of the examination will be confirmed early next year. The examination will account for 60% of your total study score for Biology Units 3 and 4.

**Required Textbooks**

*Nature of Biology Book 2*, 4<sup>th</sup> Edition 2012 and  
*Year 12 Biology : Student Workbook 2015* by Biozone

**Organisation**

Please take some time to think about your organisation. You will need to recall information from your very first lessons so you need to keep **EVERY** handout, take notes, and complete **ALL** chapter questions. Think about how you will keep everything organised and available for you to refer back to. Revision will be much easier if you stay organised throughout the year.

**Expectations**

You will be expected to study yourself at home as well as complete homework tasks and assessment tasks that are set during the semester. There is a Biology help night that runs every Wednesday after school, and personal study sessions may be organised either before school or after school when you feel that you require them.

**Punctuality**

You need to be in class on time. Expect detention and also exclusion from a class where safety instructions have already been given out, this also includes SACs. If you miss a SAC without a medical certificate, you will not receive a mark for it.

**Absences**

It is imperative that you attend lessons. If you miss a SAC you will not be marked for that SAC unless you have a medical certificate. If you have a medical certificate, you will be given an opportunity to 'make it up', if you don't have a medical certificate you will have one chance to do the SAC however this will not contribute to your final study score. Attendance of 90% is a VCAA requirement. This means that you cannot have unexplained absences more than 10 times for Unit 3, otherwise you will fail the Unit.