



S4 Biology Information

This is an important document – please keep it safe

Welcome to S4 Biology!

In S4, **pupils** you **are** **taught** biology in 3 units:

- **Unit 1: Cell Biology**

The key areas covered are: cell structure; transport across cell membranes; DNA and the production of proteins; genetic engineering; respiration.

- **Unit 2: Multicellular Organisms**

The key areas covered are: producing new cells; control and communication; reproduction; variation and inheritance; transport systems — plants; transport systems — animals; absorption of materials.

- **Unit 3: Life on Earth**

The key areas covered are: ecosystems; distribution of organisms; photosynthesis; energy in ecosystems; food production; evolution of species

In addition to the content listed above, you will also develop your scientific investigative, literacy and numeracy skills. Problem solving is an important part in all the National Biology courses.

Pathways

You will collect evidence for your learning this year at one or more of the following levels:

- National 4
- SCQF level 5 units (National 5 level)
- National 5 course award

A summary of the assessments at each level:

National 4	SCQF level 5 (National 5 units)	National 5 Course Award
<ul style="list-style-type: none">• Outcome 1 N4 lab report• N4 level end of unit tests• Added Value Project	<ul style="list-style-type: none">• Outcome 1 N5 lab report• N5 level end of unit tests	<ul style="list-style-type: none">• End of unit N5 grading tests (ABC level)• Assignment (20% of final grade)

You must achieve all of them S3 National 5 biology **you** pathway.

It is important that you consistently try your best throughout the year. We use the collected assessment evidence to judge how well you are coping with course material, and to ensure you are assigned to the correct pathway.

Assessment Dates

Unit	Assessment	Approximate Date
Unit 1: Cell Biology	Outcome 1 lab report	11 th June 2018
	Unit test Grading Test (N5 only)	15 th October 2018
	Assignment (N5 only)	27 th September 2018
Unit 2: Multicellular Organisms	Unit test Grading Test (N5 only)	12 th Dec 2018
Unit 3: Life on Earth	Unit test Grading Test (N5 only)	24 th March 2019

Next Steps

In S5, students will follow the S4 'Survival' course at a National 5 or Higher level. The class teacher will use the evidence generated in 3rd year to decide on the best learning pathway.

You must have a very good understanding of National 5 to progress to Higher. We find that a minimum of a National 5 'B' grade is needed in order to be successful at Higher.

your Supporting study at home

Learning outcome sheets are issued for each unit and we work from booklets in class. Additional resources such as summary notes and revision questions are **All S3 classes have been encouraged to make use of the resources we put online on Edmodo.** There are learning outcomes for each unit as well as vocabulary lists and lots of other helpful documents. To use Edmodo, students just go on to the site and enter the appropriate code. Your teacher may also set up a class notebook, they will show you how to access this.

dk7syy - this is the code at the moment but they do change from time to time.

Some useful revision websites

<https://www.bbc.com/education/subjects/zync87h>

<http://nat5biopl.edubuzz.org/>

<http://www.oronsay.org/Nat5.htm>

<https://www.sqa.org.uk/sqa/45725.html>

<http://www.hamiltonscience.org/gensci.html>

(please sign and return to class teacher by _____)

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