



Rangi Ruru
Girls' School

Year 13 Koiora - Biology 2024

Course Information for Students

*Ma te huruhuru, ka rere te manu
Adorn the bird with feathers so it can fly*

Welcome to level 3 Biology in 2024! We hope that your year will be interesting, valuable, challenging and successful.

Biologists and students studying biology want to explain the nature of living things and to understand where and how life is evolving, how evolution links life processes and ecology, and the impact that humans have on all forms of life.

In your Biology class, your Rangī Ruru values and Rangī Graduate dispositions will be demonstrated through:

Whakaute Respect: Acknowledge and respect different perspectives.

Aroha: Take opportunities to work with others in a supportive way.

Rikarika Endeavour: Take responsibility for your own learning and give things a go.

Ngaana Enthusiasm: Have a positive attitude towards learning.

Manaakitanga - Generosity of Spirit: Listen carefully to other's opinions and be curious.

Tika Integrity · Be honest about your own work and be responsible for your own behaviours.

What will you begin to understand in Biology this year?

Biology helps us make sense of the living world.	Biology connects us to the world we live in and reminds us of our interconnectedness with all other life forms. To understand the world, we must understand the relationships between ourselves and the environment in which we live and our role as guardians of the land, kaitiakitanga.
Biology has a continuous, evolving human history.	<i>Nō ngā tupuna, tuku iho, tuku iho.</i> The human ideas that have been passed down from generation to generation over time can help people today develop their thinking.
Biology is elegant, explorative, creative and powerful.	Biology uses data, evidence and relationships to find out, explore and explain.
Biology helps us in our everyday lives and decisions and is key to many areas of knowledge and practice.	The concepts, skills and processes of Biology are used in everyday practices and decisions.
Biology rewards persistence and positivity.	Biology offers multiple ways to approach and solve problems. Experimentation and failures play an important role in understanding

What will you know and do in Biology this year?

This year you will:

- explore the evolutionary processes that have resulted in the diversity of life on Earth and appreciate the place and impact of humans within these processes.
- integrate biological knowledge to make informed judgments about the social, ethical, and biological implications to develop an informed response to a socio-scientific issue.
- carry out an investigation that includes developing your understanding of the relationship between the investigation and scientific theory.

What skills will you develop this year?

Using language, symbols and texts appropriately: You will develop knowledge of biological vocabulary, numeric and symbol systems and conventions of Science such as graphs, formulae, units and diagrams.

Critical thinking: There is a lot of “fake Science” presented in the media and on various social platforms. As global citizens it is important that you can tell the difference between fact and fiction.

Gathering evidence: Science investigations are used to generate and evaluate knowledge to answer questions

Self-management: If you have missed lessons – it is up to you, and not your teacher, to ensure you catch up.

Effective collaboration: Collaborative tasks will allow you to focus on good communication so your group reaches a common goal.

Achievement Standards offered in Level 3 Biology 2023

Achievement Standard Number	Subject Reference	Version Number	Topic/Title	Mode of Assessment	Credits
91601	Bio 3.1	2	Carry out a practical investigation in a biology context, with supervision	Internal	4
91602	Bio 3.2	2	Integrate biological knowledge to develop an informed response to a socio-scientific issue	Internal	3
91604	Bio 3.4	2	Demonstrate understanding of how an animal maintains a stable internal environment	Internal	3
91605	Bio 3.5	2	Demonstrate understanding of evolutionary processes leading to speciation	External	4
91606	Bio 3.6	2	Demonstrate understanding of trends in human evolution	External	4

ASSESSMENT PROCEDURES

- 5 Achievement Standards will be offered with a total of 18 credits.
- 2 Achievement Standards will be assessed by an **external** examination (8 credits).
Formative Tests will be used as indicators of your progress.
- 3 Achievement Standards will be assessed **internally** during the year (10 credits).

Bio 3.1	Practical Investigation	Term 1 week 10	(4 credits)
Bio 3.4	Homeostasis	Term 2 week 4	(3 credits)
Bio 3.2	Response to a socio-scientific issue	Term 3 week 6	(3 credits)

All Achievement Standard tasks will have a checklist of what is required to attain an Achieved, Achieved with Merit or Achieved with Excellence.

Workbooks

For the external achievement standards, you will be given a write-on workbook to be used in class and for homework.

Important Information for Internal Assessments

- **Absences** – It is important that you do not miss any assessments (Internal or External) except for genuine reasons of sickness, accident or other extreme emergency. Providing a Medical Certificate from your Doctor must cover absence during an assessment. On your return to school you will be given the opportunity to do the task for the particular Achievement Standard. This will NOT be possible if you choose to go on a family holiday, or similar non-school related event, at the time of assessment.
- **Assessment Policies** – Information regarding the school policy on assessment, authenticity and appeal procedures is found on <https://hub.rangiruru.school.nz/assessment/>. Ensure you read these thoroughly and follow all guidelines. Know your rights and responsibilities.
- **Filing** – When an Internal assessment task has been marked you will be asked to **verify the sighting and acceptance of the grade awarded by signing the cover sheet**. All assessed work will then be filed at school for security and for moderation by NZQA, if required.
- **Assessment** – If a '**Not Achieved**' grade is awarded for an **internally** assessed Achievement Standard, there will be no further assessment opportunities in that Achievement Standard.
- You **may be** offered the opportunity of a **resubmission** if your work requires minor corrections or change that you may have overlooked and should be able to identify within a few minutes. Your teacher will approach you prior to the task being handed back to the class as a whole if this is relevant for you. You will be required to identify and make any changes immediately. Your teacher is **not** able to tell you of the specific change required; you must be able to identify the required change yourself.

Teachers: Cd, Gi

Subject: Biology

Level: 3

Week		Date			
1	A	29 January	-	2 February	Bio 3.1 Practical Investigation (I)
2	B	5 February	-	9 February	Waitangi Day 6/2
3	A	12 February	-	16 February	
4	B	19 February	-	23 February	Athletics 22/2
5	A	26 February	-	1 March	
6	B	4 March	-	8 March	PDP 5/3
7	A	11 March	-	15 March	
8	B	18 March	-	22 March	Tournament week
9	A	25 March	-	29 March	Bio 3.4 Homeostasis (I) Easter 29/3
10	B	1 April	-	5 April	3.1 Internal due Easter 1/4 & 2/4
11	A	8 April	-	12 April	
		15 April	-	19 April	
		22 April	-	26 April	Anzac Day 25/4
		29 April	-	3 May	
1	B	6 May	-	10 May	
2	A	13 May	-	17 May	
3	B	20 May	-	24 May	Bio 3.5 Speciation (E)
4	A	27 May	-	31 May	3.4 Internal due
5	B	3 June	-	7 June	King's B/D 3/6
6	A	10 June	-	14 June	
7	B	17 June	-	21 June	
8	A	24 June	-	28 June	Matariki 28/6
9	B	1 July	-	5 July	3.5 DG assessment
		8 July	-	12 July	
		15 July	-	19 July	
		22 July	-	26 July	
1	A	29 July	-	2 August	Bio 3.2 Socioscientific Issue (I)
2	B	5 August	-	9 August	
3	A	12 August	-	16 August	
4	B	19 August	-	23 August	
5	A	26 August	-	30 August	Bio 3.6 Human Evolution (E)
6	B	2 September	-	6 September	3.2 Internal due
7	A	9 September	-	13 September	12/9 Orana Park
8	B	16 September	-	20 September	
9	A	23 September	-	27 September	
		30 September	-	4 October	
		7 October	-	11 October	
1	B	14 October	-	18 October	
2	A	21 October	-	25 October	3.6 DG assessment
3	B	28 October	-	1 November	Labour Day 28/10
4	A	4 November	-	8 November	
5	B	11 November	-	15 November	NCEA level 3 Biology 13 November Show Day 15/11
6	A	18 November	-	22 November	
7	B	25 November	-	29 November	