



Rangi Ruru
Girls' School
BE YOU. BELONG.

Year 10 SCIENCE

What is Science?

Science is the study of how the universe works. Scientific explanations are accepted as reliable only when they have been thoroughly tested. Scientific knowledge builds on previous ideas and is continually being updated and expanded as new evidence comes to hand. This means that our understanding of the universe has changed over time and will continue to change.

Scientific investigation is creative as well as logical. Through inspiration, careful observation, and critical thinking, scientists discover, invent and apply ideas. Knowledge gained from scientific research finds its way into countless practical applications/technologies that benefit humankind.

Year 10 Science in 2021

Year 10 continues with the same focus as Year 9. In addition we aim to build a sound foundation for Year 11 NCEA Level 1 Science. The skills needed for NCEA Level 1 Science, are introduced and practised throughout the year.

LEARNING PROGRAMME

The units of work explore the five strands of the Science Curriculum: The Nature of Science, The Living World, The Material World, and Planet Earth and Beyond.

TERM 1	Alive and Well Climate Change
TERM 2	Properties of Matter Electricity
TERM 3	Reproduction and Genetics Mechanics Investigation
TERM 4	Earth Science

Specific Learning Outcomes: CHECKLIST

It is important that you take responsibility for monitoring your learning. Use the 'Specific Learning Outcomes' as a revision checklist and to record your progress for the Common Assessments at the end of each topic.

ASSESSMENT

There will be regular written and practical assessments so that your progress in mastering specific learning outcomes can be assessed and recorded. Knowledge and understanding will be assessed as well as the ability to process, interpret and report on scientific information.

EXTENSION WORK IN SCIENCE

Let your teacher know if you are interested in doing more than the regular class work. There are extension opportunities and activities available.

We encourage you to participate in Science competitions such as ICAS and also the wide variety of activities offered by your classroom teacher.

GETTING HELP

If you are having any difficulty with your class work you should ask your teacher for help in class. If needed extra help is available from a senior student.

RESOURCES

All students will be given a SCIPAD workbook at the beginning of the year. Classroom and homework activities will be completed in this book. The cost for this will be goldsheeted. In addition to this, you will have access to a textbook as a further resource. Your textbook is on loan to you for the school year. Please do not write in your textbook, or scribble on the cover or on the edges of the pages. If it is lost or badly damaged you will be charged a replacement cost.

BYOD and NOTETAKING

Your teacher will have set up a Science OneNote page for your class. It is a good idea to write notes and keep other relevant information (eg. photos of diagrams from the whiteboard) on OneNote. Your teacher will also put additional information/assignments etc on OneNote. Your exercise book can be used to complete additional exercises, worksheets and notetaking.

ABSENCES

If you are absent from class you should try to catch up on missed work by having a 'buddy' in your class who can collect sheets for you and lend you her book to get any missed notes. If you have difficulty catching up after a long absence, ask your teacher for help.

HOMEWORK

Good homework habits are essential if you want to be successful. Enter the homework carefully in your student handbook, making sure you know what is required. Try to find a quiet place to do your homework. Your parents will be interested in your homework, so show them what you are doing. Homework will be marked in class to ensure you understand the work being studied.

What happens if you can't understand your homework?

1. Read your notes carefully.
2. Look at the notes in the relevant section of your SCIPAD or textbook.
3. Ask an older member of your family to help you.
4. Phone a friend and talk about it with them.

Preparing for Year 11 Science

As you progress in Year 10 you will need to consider which subjects you find interesting and/or important for your possible career choice when considering your Year 11 Science options. There are three choices in Year 11 Science:

1. **General Science.** This course gives you a wide range of Science topics.
2. **Physical and Biological Science.** This course is designed to give in-depth coverage of a range of Science topics.
3. **Biology.** This course is focused on biological concepts.



Year 10 Science Planner 2021

Teacher: **Bd** (10Mu), **Bz** (10Np), **Gi** (10Ro), **Sb** (10Ay), **Vn** (10Wu)

Subject: Science

Level: 4-5

Week		Date			
1	A	25 January	-	29 January	Lab Safety TOD 25th & 26th TERM ONE
2	B	1 February	-	5 February	Alive and Well
3	A	8 February	-	12 February	(Biology) Waitangi Day (Mon 8th)
4	B	15 February	-	19 February	
5	A	22 February	-	26 February	
6	B	1 March	-	5 March	
7	A	8 March	-	12 March	Climate Change
8	B	15 March	-	19 March	(Planet Earth and Beyond)
9	A	22 March	-	26 March	
10	B	29 March	-	2 April	Thursday 1 st : 12.30pm finish
		5 April	-	9 April	Good Friday 2 nd , Easter Monday 5 th , Easter Tuesday 6 th
		12 April	-	16 April	
		19 April	-	23 April	Anzac Day Sun 25 th
1	A	26 April	-	30 April	Properties of Matter Anzac Day (Mon 26th) TERM TWO
2	B	3 May	-	7 May	(Chemistry)
3	A	10 May	-	14 May	
4	B	17 May	-	21 May	
5	A	24 May	-	28 May	
6	B	31 May	-	4 June	
7	A	7 June	-	11 June	Queen's Birthday Mon 7 th
8	B	14 June	-	18 June	Electricity
9	A	21 June	-	25 June	(Physics)
10	B	28 June	-	2 July	Friday 2 nd : 3.15pm finish
		5 July	-	9 July	
		12 July	-	16 July	
		19 July	-	23 July	
1	A	26 July	-	30 July	TERM THREE
2	B	2 August	-	6 August	
3	A	9 August	-	13 August	Reproduction and Genetics
4	B	16 August	-	20 August	(Biology)
5	A	23 August	-	27 August	
6	B	30 August	-	3 September	
7	A	6 September	-	10 September	
8	B	13 September	-	17 September	
9	A	20 September	-	24 September	Mechanics
10	B	27 September	-	1 October	(Physics) Friday 1st: 12.30pm finish
		4 October	-	8 October	
		11 October	-	15 October	
1	A	18 October	-	22 October	TERM FOUR
2	B	25 October	-	29 October	Labour Day Mon 25 th
3	A	1 November	-	5 November	Earth Science
4	B	8 November	-	12 November	(Planet Earth and Beyond) Show Day Fri 12th
5	A	15 November	-	19 November	
6	B	22 November	-	26 November	
7	A	29 November	-	3 December	Thursday 2 nd : 11.30am finish (Prizegiving evening)