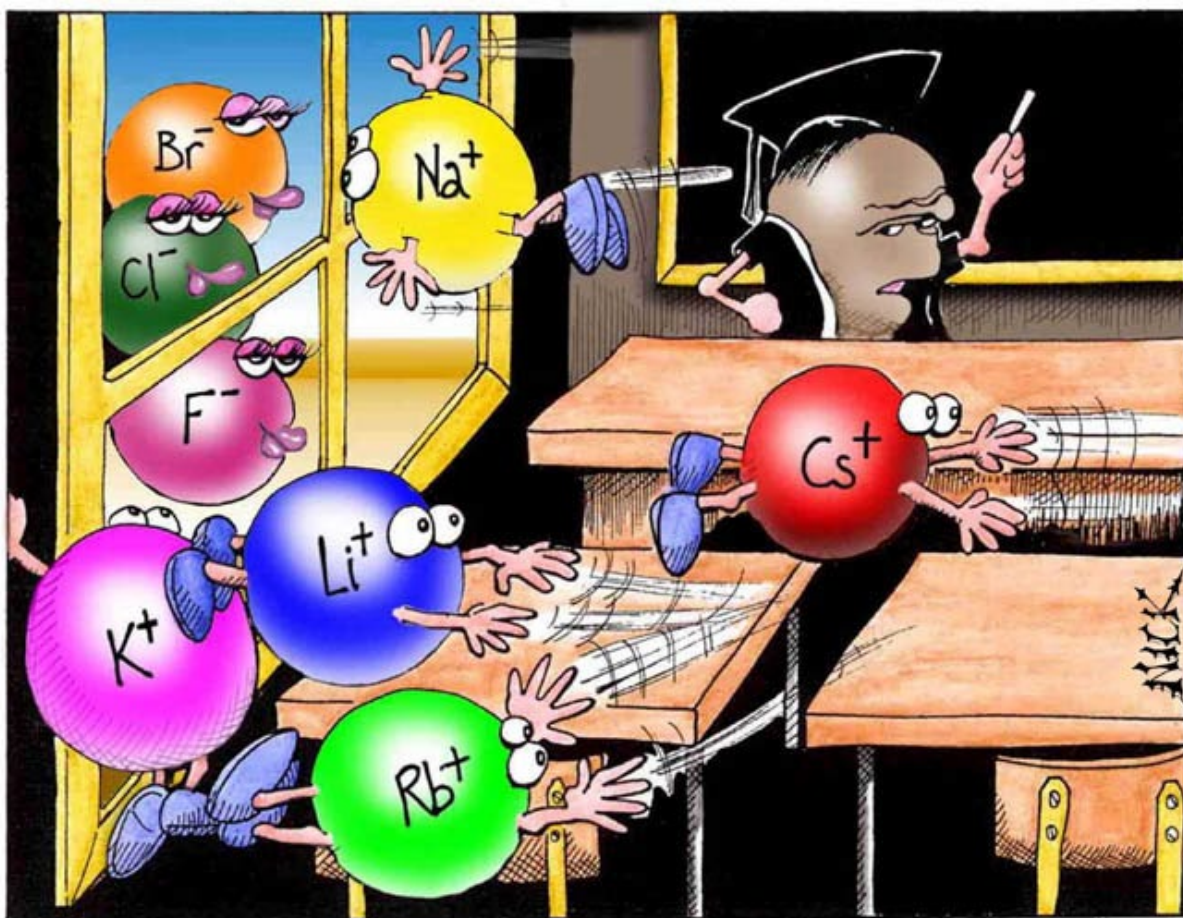


Chemistry 2022

Course Information

Year 13



“Perhaps one of you gentlemen would mind telling me just what it is outside the window that you find so attractive..?”



Level Three Chemistry

Teachers: Sb, Rn

Week		Date			TERM ONE
1	A	31 January	-	4 February	Chemistry 3.5 (E) ORGANIC STRUCTURES Demonstrate understanding of the properties of organic compounds (AS 91391 5 credits)
2	B	7 February	-	11 February	
3	A	14 February	-	18 February	Chemistry 3.2 (I) Demonstrate understanding of spectroscopic data in chemistry (AS 91388 3 credits)
4	B	21 February	-	25 February	
5	A	28 February	-	4 March	Chemistry 3.4 (E) Demonstrate understanding of thermochemical principles and the properties of particles and substances
6	B	7 March	-	11 March	
7	A	14 March	-	18 March	Good Friday 15 th
8	B	21 March	-	25 March	
9	A	28 March	-	1 April	Easter Monday 18 th , Easter Tuesday 19 th
10	B	4 April	-	8 April	
		11 April	-	17 April	TERM TWO ANZAC Day 25 th
		18 April	-	24 April	
		25 April	-	1 May	Chemistry 3.4 (E) Demonstrate understanding of thermochemical principles and the properties of particles and substances (AS 91390 5 credits) Derived grade test week 6
1	A	2 May	-	6 May	
2	B	9 May	-	13 May	Chemistry 3.7 (I) Demonstrate understanding of oxidation-reduction processes (AS 91393 3 credits) Queen's Birthday 6 th
3	A	16 May	-	20 May	
4	B	23 May	-	27 May	Matariki 24 th
5	A	30 May	-	3 June	
6	B	6 June	-	10 June	Chemistry 3.5 (E) ORGANIC REACTIONS
7	A	13 June	-	17 June	
8	B	20 June	-	24 June	Chemistry 3.1 (I)
9	A	27 June	-	1 July	
10	B	4 July	-	8 July	18 July
		11 July	-	17 July	
		18 July	-	24 July	TERM THREE
		25 July	-	31 July	
1	A	1 August	-	5 August	Chemistry 3.5 (E) ORGANIC REACTIONS Demonstrate understanding of the properties of organic compounds (AS 91391 5 credits) Derived grade test week 6
2	B	8 August	-	12 August	
3	A	15 August	-	19 August	Chemistry 3.1 (I) Carry out an investigation in chemistry involving quantitative analysis (AS91387 4 credits)
4	B	22 August	-	26 August	
5	A	29 August	-	2 September	Chemistry 3.6 (E) Demonstrate understanding of equilibrium principles in aqueous systems (AS 91392 5 credits)
6	B	5 September	-	9 September	
7	A	12 September	-	16 September	Chemistry 3.1 (I) Carry out an investigation in chemistry involving quantitative analysis (AS91387 4 credits)
8	B	19 September	-	23 September	
9	A	26 September	-	30 September	TERM FOUR
		4 October	-	10 October	
		11 October	-	17 October	3.6 Derived grade Test
1	B	17 October	-	21 October	
2	A	24 October	-	28 October	Labour Day 24 th
3	B	31 October	-	4 November	
4	A	7 November	-	11 November	NCEA starts
5	B	14 November	-	18 November	
6	A	21 November	-	25 November	18 th Level THREE CHEMISTRY Exam
					21 st Scholarship CHEMISTRY Exam

NCEA LEVEL 3 (Year 13) Chemistry 2022

Course information for Students

Welcome to Chemistry in 2022! We hope you will enjoy and be challenged by the topics covered this year. This course aims to prepare you for future studies in Chemistry or meet the requirements for entry to other tertiary courses.

What will I do in Year 13 Chemistry?

Year 13 Chemistry builds on many of the concepts learnt in Year 12 Chemistry. You will continue to develop practical skills, linking observation with chemical species and explaining the observations.

What will I learn in Year 13 Chemistry?

The content focus of Year 13 Chemistry is

- 1) Comparing electrolysis and electrochemical cells.
- 2) Explaining Periodic trends and intermolecular forces.
- 3) Understanding how the functional groups of organic molecules determine their reactivity.
- 4) Using spectroscopic data to identify organic molecules
- 5) Applying equilibrium principles to solubility and acid and base behaviour.

The standards offered in Year 13 aim to provide skills and content knowledge to allow students pursue a variety of courses in the future. There will be some optional standards and student will be required to make their choices at different time during the year.

Achievement Standards offered in 2022

Achievement Standard Number	Subject reference	Version number	Topic/Title	Mode of Assessment	Credits
91393	3.7	2	Demonstrate understanding of oxidation-reduction processes	Internal	3
91390	3.4	2	Demonstrate understanding of thermochemical principles and the properties of particles and substances	External	5
91391	3.5	2	Demonstrate understanding of the properties of organic compounds	External	5
91388	3.2	2	Demonstrate understanding of spectroscopic techniques	Internal	3
91392	3.6	2	Demonstrate understanding of equilibrium principles in aqueous systems	External	5
91387	3.1	2	Carry out an investigation in chemistry involving quantitative analysis	Internal	4

A course consisting of the two internals (AS 91393 and 91388) and the three externals will give the most comprehensive coverage of Chemistry content.

Other options are to replace either of the externals (AS 91391 Organic or AS 91393 Aqueous) with an Internal (AS 91387, Investigation)

Assessment Procedures

Information regarding the school policy on assessment, authenticity and appeal procedures is found on www.rangilife.school.nz (Student links/Curriculum support/NCEA).

It is very important that you understand the policies and procedures about assessment and if you have any concerns then please ask your Chemistry teacher.

Internally Assessed Achievement Standards

Internally assessed standards will be checked marked for consistent marking across classes.

When the result has been checked and you have agreed with the way in which the assessment was marked you will be asked to sign the assessment cover sheet.

All internally assessed work will be filed at school as it is likely that some of the internally assessed standards will need to be submitted to NZQA for moderation. Moderation is used to ensure that the school is assessing at the required standard.

Student Obligations

Your obligations include:

- Ensure that you understand the assessment programme and policy
- Ensure you understand the requirements of each internal assessment being completed
- Check thoroughly the accuracy of the marking of internal assessments when it is returned
- Discuss any concerns with your Chemistry teacher

The Award of Year 12 and 13 subject prizes at the end of year Prize Giving.

Top subject awards are based on the whole year's academic performance in the subject. The subject co-ordinators use their professional judgment to select award winners based on the following criteria:

- The proportion of Excellence grades in **Achievement Standards**
- Completion of a standard at the first attempt, as well as the comparative quality and quantity of a student's class work in general.
- Completion of all compulsory standards offered in the course.
- Completion of all standards to a high level in the derived grade assessments.
- Consistent effort made in homework throughout the year.
- Satisfactory class attendance throughout the year.