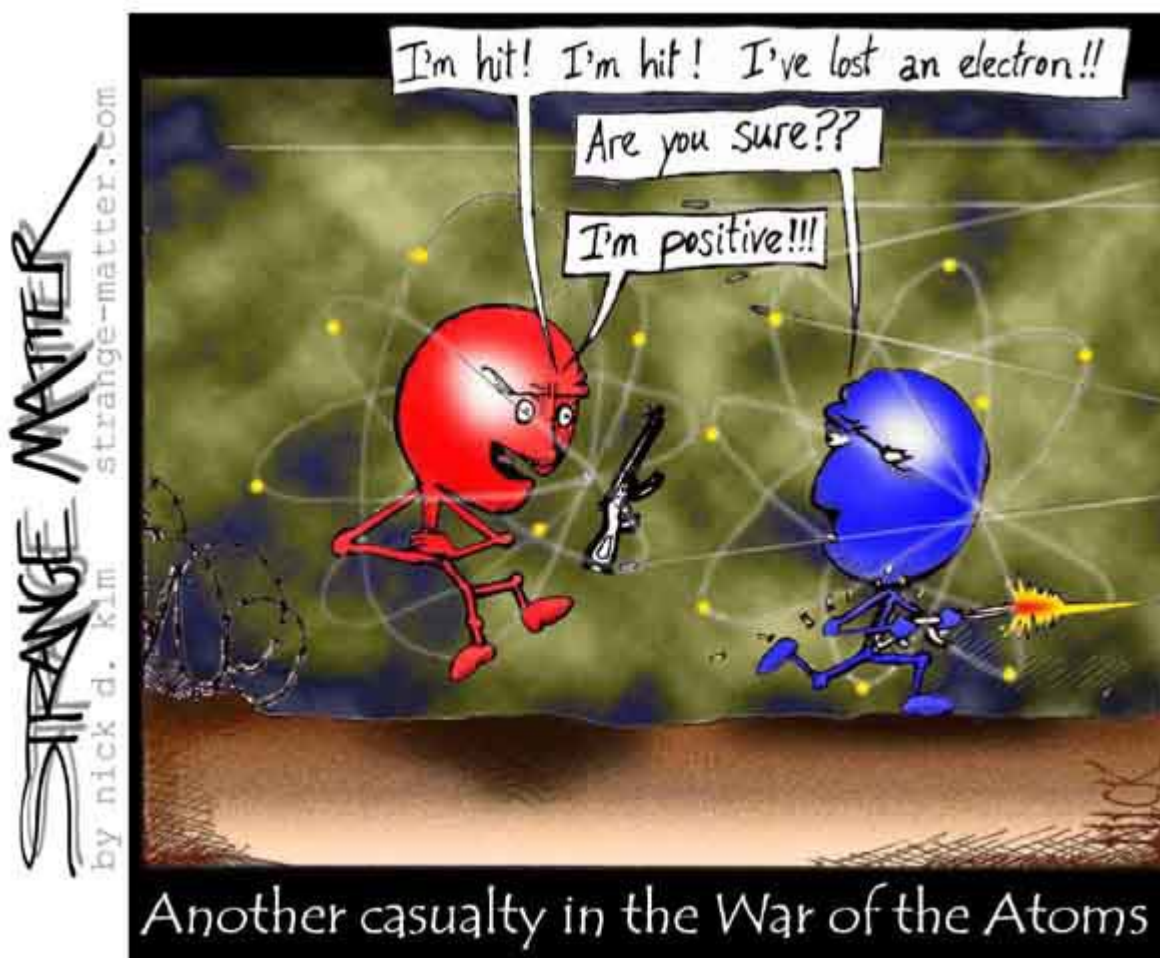


Chemistry 2022

Course Information

Year 12





Subject: Chemistry

Level: TWO

Teacher: Sb, Bl, Bd

| Week | | Date | | | TERM ONE |
|------|---|--------------|---|--------------|---|
| 1 | A | 31 January | - | 4 February | Introduction: Review of atomic structure, ions, bonding, formulae, chemical equations, moles and calculations. |
| 2 | B | 7 February | - | 11 February | |
| 3 | A | 14 February | - | 18 February | |
| 4 | B | 21 February | - | 25 February | |
| 5 | A | 28 February | - | 4 March | Chemistry 2.4 (E) Demonstrate understanding of bonding, structure, and energy changes (AS 91164, 5 credits) (Derived grade test week 2 Term 2) TERM ONE ends Friday 8th April - 12.30pm finish |
| 6 | B | 7 March | - | 11 March | |
| 7 | A | 14 March | - | 18 March | |
| 8 | B | 21 March | - | 25 March | |
| 9 | A | 28 March | - | 1 April | |
| 10 | B | 4 April | - | 8 April | |
| | | 11 April | - | 17 April | Good Friday 15 th |
| | | 18 April | - | 24 April | Easter Monday 18 th , Easter Tuesday 19 th |
| | | 25 April | - | 1 May | TERM TWO ANZAC Day 25 th |
| 1 | A | 2 May | - | 6 May | Anzac Day observed Mon 26 th Chemistry 2.1 (I) Carry out a practical investigation into a substance present in a consumer product using quantitative analysis (AS 91910, 4 credits) Queen's Birthday 6 th |
| 2 | B | 9 May | - | 13 May | |
| 3 | A | 16 May | - | 20 May | |
| 4 | B | 23 May | - | 27 May | |
| 5 | A | 30 May | - | 3 June | |
| 6 | B | 6 June | - | 10 June | |
| 7 | A | 13 June | - | 17 June | Chemistry 2.5 Matariki 24 th Describe the structural formulae and reactions of compounds containing selected functional groups (AS 91165, 4 credits) Derived grade test Term 3 week 2 TERM TWO ends Friday 8th July - 3.20pm finish |
| 8 | B | 20 June | - | 24 June | |
| 9 | A | 27 June | - | 1 July | |
| 10 | B | 4 July | - | 8 July | |
| | | 11 July | - | 17 July | |
| | | 18 July | - | 24 July | |
| | | 25 July | - | 31 July | TERM THREE |
| 1 | A | 1 August | - | 5 August | Chemistry 2.7 (I) Demonstrate understanding of oxidation-reduction (AS 91167, 3 credits) |
| 2 | B | 8 August | - | 12 August | |
| 3 | A | 15 August | - | 19 August | |
| 4 | B | 22 August | - | 26 August | |
| 5 | A | 29 August | - | 2 September | Chemistry 2.6 (E) Demonstrate understanding of chemical reactivity (AS 91166, 4 credits) TERM THREE ends Friday 30th September – 12.45pm finish |
| 6 | B | 5 September | - | 9 September | |
| 7 | A | 12 September | - | 16 September | |
| 8 | B | 19 September | - | 23 September | |
| 9 | A | 26 September | - | 30 September | |
| | | 4 October | - | 10 October | |
| | | 11 October | - | 17 October | |
| 1 | B | 17 October | - | 21 October | TERM FOUR |
| 2 | A | 24 October | - | 28 October | 2.6 derived grade test Labour Day 24 th |
| 3 | B | 31 October | - | 4 November | |
| 4 | A | 7 November | - | 11 November | Show Day 11 th |
| 5 | B | 14 November | - | 18 November | |
| 6 | A | 21 November | - | 25 November | |
| 7 | B | 28 November | - | 3 December | TERM FOUR ends Thursday 1st December - 11.30am finish Prizegiving Thursday 1 st - evening (Town Hall) Leavers' Ball – Friday 2 nd December |

NCEA LEVEL 2 (Year 12) 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. The Y12 Chemistry course aims to provide a solid foundation of skills and concepts on which to base further studies in Chemistry.

What will I do in Year 12 Chemistry?

You will develop your skills of observation in a chemical context, learning to link observations to chemical species. You will learn to work with accuracy and precision when analyzing chemical substances. Practical work will be supported by chemical equations and calculations. The Internal assessments in Level Two Chemistry will develop practical skills and be supported by chemical equations and calculations.

What will I learn in Year 12 Chemistry?

The content focus Year 12 Chemistry is

- 1) Understanding how atoms in molecules are held together and how this determines the properties of the molecules.
- 2) Understanding the factors that influence rates of reaction, equilibrium reactions and the properties of acids and bases.

The content covered in the **three** externals will provide and understanding of concepts that will be further developed in Level Three Chemistry.

Achievement Standards offered in 2022

| Achievement Standard Number | Subject reference | Version number | Topic/Title | Mode of Assessment | Credits |
|-----------------------------|-------------------|----------------|--|--------------------|---------|
| 91910 | 2.1 | 1 | Carry out a practical investigation into a substance present in a consumer product | Internal | 4 |
| 91164 | 2.4 | 2 | Demonstrate understanding of bonding, structure, and energy changes | External | 5 |
| 91165 | 2.5 | 2 | Demonstrate understanding of the properties of selected organic compounds | External | 4 |
| 91166 | 2.6 | 2 | Demonstrate understanding of chemical reactivity | External | 4 |
| 91167 | 2.7 | 2 | Demonstrate understanding of oxidation-reduction | Internal | 3 |

Study Habits

Regular revision of your work in Chemistry is essential for success. External achievement standards in particular require the recall of key content and this is best achieved by regular review and asking questions.

Good study habits in 2022 will help develop an understanding of key concepts in Chemistry that are required for further study in many fields. Success in Level Two Chemistry will provide you with good options in the future.

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.

As most of the Internal Assessment tasks involve practical elements there will be only one assessment opportunity.

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 school examinations.
- Consistent effort made in homework throughout the year.
- Satisfactory class attendance throughout the year.