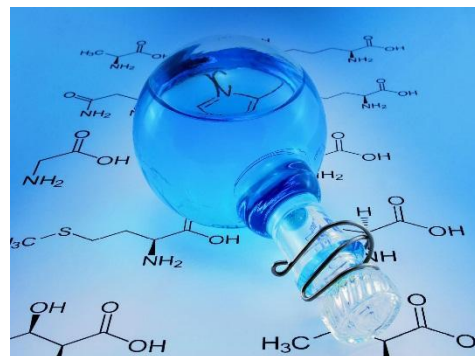
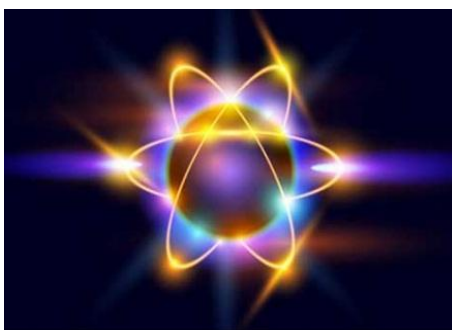




## Level 3 Chemistry : (L3CHE)

NCEA Level:	Level 3
Primary Qualification:	NCEA
Primary Learning Area:	Sciences
Date:	2020
Teachers:	Mr Peter Skrine



### Standards on Offer

NCEA Level	Standard Number	Standard Descriptor	Credits	Assessment	Literacy	Numeracy	Vocational Pathways
3	AS91388 02	Chemistry 3.2 - Demonstrate understanding of spectroscopic data in chemistry	3	Internal	No	No	C&I, M&T, PI, SC
3	AS91389 02	Chemistry 3.3 - Demonstrate understanding of chemical processes in the world around us	3	Internal	Yes L1 Lt, B Lit	No	C&I, M&T, PI, SC
3	AS9139002	Chemistry 3.4 - Demonstrate understanding of thermochemical principles and the properties of particles	3	External	Yes L1 Lit	No	C&I, M&T, PI, SC
3	AS91391 02	Chemistry 3.5 - Demonstrate understanding of the properties of organic compounds	3	External	Yes L1 Lit	No	C&I, M&T, PI, SI, SC
3	AS91392 02	Chemistry 3.6 - Demonstrate understanding of equilibrium principles in aqueous systems	3	External	Yes L1 Lit	Yes	C&I, M&T, PI, SC
3	AS91393 02	Chemistry 3.7 - Demonstrate understanding of oxidation-reduction processes	3	Internal	Yes L1 Lit	No	C&I, M&T, PI, SC
<b>Total Available Credits</b>			<b>24</b>				

*Note: Courses are subject to change with the review of courses at the end of each year. This is a University entrance approved course. Scholarship Chemistry may be available. Course is endorsable.*

### Course Outline

Term 1 3 February - 9 April 2020 (10 weeks)	Term 2 28 April - 3 July 2020 (10 weeks)	Term 3 20 July - 25 September 2020 (10 weeks)	Term 4 12 October - early November 2020 (4 weeks)
Introduction to course theme AS91393 - Reduction oxidation processes AS91390 - Particles and energetics	AS91391 - Organic functional groups AS91388 - Spectroscopic data	AS91392 - Equilibria & aqueous systems	Revision for external standards and Scholarship
<b>KEY DATES:</b> Week 3: Titration assessment Week 5: Redox assessment	<b>KEY DATES:</b> Week 6: Mid-year examination - AS91390 (3.4 - one hour) Week 10: Assessment spectroscopic data	<b>KEY DATES:</b> Week 10: Mock examinations (derived grades)	<b>KEY DATES:</b> Week 5: NCEA examinations

## What will I learn and how will I learn?

Chemistry is the study of materials, their structure, properties and chemical reactivity. This course leads on to tertiary study. Students will learn interpretation of spectroscopic data, structure, bonding and energetics of particles, organic chemistry, aqueous systems, and reduction-oxidation reactions.

## Entry Criteria

Entry is by earning a minimum of fourteen Level 2 Chemistry credits, with at least one external standard from Level 2 Chemistry. Preference will be given to students who have earned grades at Merit and Excellence level. Additionally, students must have earned both Level 1 Literacy and Level 1 Numeracy.

## Conditions of Assessment

Most assessment will be completed with a mixture of in class and out of class time. However, some standards require work only to be completed in class time. This is to ensure authenticity, ie, that all work students submit is their own. It is important that students understand the conditions of assessment for these standards and that they direct any questions about when and how they are able to work on them to their teacher.

The teachers will be working together to get the best results for students as individuals from their year of study. There will be two school examinations. These will be set and marked to the same standard as NZQA. They are very good indicators for progress towards gaining NCEA, and students should take them seriously by preparing themselves through revision.

## Submitting Internal Assessments

It is important that students take note of the due dates for their internal assessments. All internal assessments must be submitted on or prior to the due date, unless prior approval has been granted for special circumstances (refer to NCEA guidelines or talk to their teacher about this). Assessments that are submitted after the due date, without prior approval, will receive a Not Achieved.

## Resubmissions and Reassessments

All standards have a resubmission opportunity. Time and pace of learning will dictate whether further assessment opportunities can occur.