

# Year 12 CHEMISTRY

## NCEA Level 2

### Course Outline 2020

This course is based on The New Zealand Curriculum, Level 7 Nature of Science and Material World achievement objectives. It aims to develop knowledge of chemistry and its contribution to society. This course ensures all the main principles and skill required are covered to enable a student to be assessed for NCEA Level 2 Chemistry and to provide a strong base for future study. It is structured around 5 units of work (2 internal and 3 external).

The textbook used this year is **SciPad**  
You will also use the **ESA Level 2 Chemistry Study Guide**

Achievement Standard Number	Title	Credits	Assessment
Chem 2.1 - AS91910	Carry out a practical investigation into a substance present in a consumer product using quantitative analysis	4	Internal
Chem 2.4 - AS91164	Demonstrate understanding of bonding, structure, properties and energy changes	5	External
Chem 2.5 - AS91165	Demonstrate understanding of the properties of selected organic compounds	4	External
Chem 2.6 - AS91166	Demonstrate understanding of chemical reactivity	4	External
Chem 2.7 - AS91167	Demonstrate understanding of oxidation-reduction	3	Internal

There is an opportunity to obtain **20** credits in total.

The 2 internally assessed Level 2 Achievement Standards will be assessed at the following times:

- AS91161 (2.1) Carry out quantitative analysis: **Week 2 Term 2\***
- AS91167 (2.7) Demonstrate understanding of oxidation-reduction: **Week 3 Term 3\***

[\*note these are indicative only, actual dates will be advised at least a week before]

The remaining Level 2 Achievement Standards will be externally assessed in November/December.

Information regarding NCEA Assessment in Chemistry can be found at [www.nzqa.govt.nz/chemistry](http://www.nzqa.govt.nz/chemistry).

**2020 Term Calendar**  
Year 12 Chemistry (topic lengths are a rough guide only)

Week	Month	Date	Topic	Assessment/Notes
1	January	31	Aqueous Chemistry Intro	
2	February	3 - 5		Waitangi Day Wed 6 <sup>th</sup> Feb
3	February	10 - 14	2.6 Chem Reactivity	
4	February	17 - 21		
5	February	24 - 28		
6	March	2 - 6		
7	March	9 - 13		
8	March	16 - 20		
9	March	23 - 27		2.6 End of Unit Test
10	March/April	30 - 3	2.1 Quantitative	
11	April	6 - 9		
Holidays				
1	April/May	28 - 1		
2	May	4 - 8		2.1 INTERNAL
3	May	11 - 15	2.4 Structure and Bonding	
4	May	18 - 22		
5	May	25 - 29		
6	June	1 - 5		Queen's Birthday 3 <sup>rd</sup> June
7	June	8 - 13		
8	June	15 - 19		
9	June	22 - 26		2.4 End of Unit Test
10	June/July	29 - 3	2.7 Redox	
Holidays				
1	July	20 - 24		
2	July	27 - 31		
3	August	3 - 7		2.7 INTERNAL
4	August	10 - 14	2.5 Organic	
5	August	17 - 21		
6	August	24 - 28		
7	Aug/September	31 - 4		
8	September	7 - 11		
9	September	14 - 18		
10	September	21 - 25		2.5 End of Unit Test
Holidays				
1	October	12 - 16		
2	October	19 - 23		
3	October	26 - 30		Labour Day Mon 28 <sup>th</sup> Oct
4	November	2 - 6	Level 2 NCEA Chemistry External Exam 9.30am Thursday 19 November	
5	November	9 - 13		
6	November	16 - 20		
7	November	23 - 27		
8	Nov/December	30 - 4		