

# Year 13 CHEMISTRY

## NCEA Level 3

### Course Outline 2020

This course is based on The New Zealand Curriculum, Level 8 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 3 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 3 Chemistry Study Guide**

Achievement Standard Number	Title	Credits	Assessment
Chem 3.2 - AS91388	Demonstrate understanding of spectroscopic data in chemistry	3	Internal
Chem 3.4 - AS91390	Demonstrate understanding of thermochemical principles and the properties of particles and substances	5	External
Chem 3.5 - AS91391	Demonstrate understanding of the properties of organic compounds	5	External
Chem 3.6 - AS91392	Demonstrate understanding of equilibrium principles in aqueous systems	5	External
Chem 3.7 - AS91393	Demonstrate understanding of oxidation-reduction processes	3	Internal

There is an opportunity to obtain **21** credits in total.

The two internally assessed Level 3 Achievement Standards will be assessed at the following times:

- AS91387 (3.2) Spectroscopy: **Week 4 Term 3\***
- AS91393 (3.7) Demonstrate understanding of oxidation-reduction: **Week 6 Term 1\***

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

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 13 Chemistry (topic lengths are a rough guide only)

Week	Month	Date	Topic	Assessment/Notes
1	January	31	3.7 Redox	
2	February	3 - 5		Waitangi Day Wed 6 <sup>th</sup> Feb
3	February	10 - 14		
4	February	17 - 21		
5	February	24 - 28		
6	March	2 - 6		3.7 INTERNAL
7	March	9 - 13	3.6 Aqueous	
8	March	16 - 20		
9	March	23 - 27		
10	March/April	30 - 3		
11	April	6 - 9		
Holidays				
1	April/May	28 - 1		
2	May	4 - 8		3.6 End of Unit Test
3	May	11 - 15	3.5 Organic	
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		3.5 End of Unit Test
10	June/July	29 - 3	3.2 Spectroscopy	
Holidays				
1	July	20 - 24		
2	July	27 - 31		
3	August	3 - 7		
4	August	10 - 14		3.2 INTERNAL
5	August	17 - 21	3.4 Thermo Chemistry	
6	August	24 - 28		
7	Aug/September	31 - 4		
8	September	7 - 11		
9	September	14 - 18		
10	September	21 - 25		3.4 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		
5	November	9 - 13		
6	November	16 - 20	Level 3 NCEA Chemistry External Exam 2pm Friday 20 November	
7	November	23 - 27		
8	Nov/December	30 - 4		