

<b>Programme description</b>	This course will introduce students to aspects of organic and inorganic chemistry. It will build on the science learning gained prior to Year 12 and prepare students for continued chemistry study at Year 13. <b>19 credits are available.</b> Chemistry provides students with an understanding of substances, how they react with each other and how we make use of them. Students will develop knowledge of the physical and chemical properties of substances and will research current use of chemistry in technology.
<b>Content</b>	Topics covered include: Bonding, structure, properties and energy changes, Organic compounds, Chemical reactivity, Oxidation-reduction and Chemistry used in technology.
<b>Prerequisites</b>	NCEA Level 1 with at least 12 credits from Level 1 Science including 1.5 acids and bases. A Merit endorsement at Level 1 is desirable.
<b>Required</b>	sciPAD Level 2 Chemistry Bundle <a href="#">Workbooks</a> - Externals (ISBN: 978-0-9922604-0-8) by Jason Rendle and Phil Nash <b>plus</b> Internals (ISBN: 978-0-9922604-2-2) by Jason Rendle and Phil Nash. Access to ESA Level 2 Chemistry <a href="#">Study Guide</a> (ISBN: 978-1-927194-17-1) by Suzanne Boniface is recommended. Access to <a href="#">Google classrooms</a> code: <b>nmdin6c</b> is essential. Please ensure these resources are sourced early to avoid delays in participating in learning activities.
<b>Assessment</b>	<b>Externals (13 credits):</b> There will be end of topic tests (which may include school exams) for each external to assess your ability on 2.4, 2.5, 2.6. These will enable you, your caregivers, and me to track your progress. Periodic requests for completed work will also be made. The results may be used when derived grades are necessary. <b>Internals (6 credits):</b> There will be ample opportunities to monitor your understanding and get feedback before the assessment dates, so <b>no reassessments</b> will be available for any internal. It is therefore very important that you get feedback on all work before the assessment.
<b>Contact</b>	Doreen Leighton, Tamatea High School, (06-844-6600), <a href="mailto:doreenl@tamatea.school.nz">doreenl@tamatea.school.nz</a>

Standards	Description	When Assessed (approximate date)	Type	Credit value
<a href="#">AS91164v2</a>	2.4 Demonstrate understanding of bonding, structure, properties and energy changes.	Week 8 term 1 17 March	E	5
<a href="#">AS91167v2</a>	2.7 Demonstrate understanding of oxidation-reduction.	Week 2 term 2 5 May	I	3
<a href="#">AS91165v2</a>	2.5 Demonstrate understanding of the properties of selected organic compounds.	Week 9 term 2 23 June	E	4
<a href="#">AS91163v2</a>	2.3 Demonstrate understanding of the chemistry used in the development of a current technology.	Week 3 term 3 4 August	I	3
<a href="#">AS91166v2</a>	2.6 Demonstrate understanding of chemical reactivity.	Week 10 term 3 22 September	E	4

I = Internally Assessed | E = Externally Assessed