

CHM415115 Chemistry

15 TCE Points



You will work through the following units as part of Chemistry 4

- Electrochemistry and corrosion (criterion 5)
- Thermochemistry, kinetics and chemical equilibrium (criterion 6)
- Properties and structures of organic materials, gases, and the Periodic Table (criterion 7)
- Chemical stoichiometry (criterion 8)

You will also:

- develop, interpret and evaluate chemistry experiments (criterion 2)
- analyse the application and impact of chemistry in society (criterion 3)

How you'll be assessed:

Common types of internal assessments are:

- Tests
- Assignments
- Essays
- Laboratory reports

The external assessment for this subject is a written examination assessing criteria: 5, 6, 7 and 8.

The dates for external exams in November are non-negotiable.

COMPLETION OF WORK

Assessment due dates are provided in the Program of Learning and on Canvas. Work must be submitted by the due date unless an approved extension has been granted. Unapproved late submissions will incur penalties as outlined in the *Completion of Work Policy*. Students needing extensions should contact their subject teacher before the due date with valid reasons, such as illness or unforeseen circumstances.

For more details refer to the Launceston College: [Completion of Work Policy](#).

ACADEMIC INTEGRITY

All senior secondary students in Tasmania are expected to uphold academic integrity, meaning they complete their work honestly and fairly. This includes properly referencing any ideas, images, or information borrowed from others, allowing teachers to distinguish between original and sourced content.

Assignments will be submitted through Canvas, email, hard copy as directed in the task sheet.

For more details, refer to the Launceston College: [Academic Integrity Policy](#).

REFERENCING

The Harvard referencing system is recommended for Chemistry 4. The standards for criterion 3 state that a student must:

- create appropriate reference lists/bibliographies and use in-text referencing.
- clearly identifies the information, images, ideas and words of others used in the student's work.

COURSE DOCUMENT

The TASC website provides considerable information about the course. [Chemistry - TASC](#)

OTHER COURSE REQUIREMENTS



A scientific calculator.

Scan the QR code to see TASC calculator policy.

Week	Date	Program of Learning 2025	Notes / Assessments
1	6 Feb	Chemical stoichiometry: revision of PSC315 criterion 8, percentage yield/purity, density, limiting reagents	Yr 11s and 12's return February 8 (Thursday)
2	10 Feb		
3	17 Feb		
4	24 Feb		Wed 26 Feb – Launceston Cup Criterion 8 Test
5	3 Mar	Rates of reaction (Kinetics)	
6	10 Mar	Thermochemistry, inc. calorimetry, Hess’ Law and bond energies	Mon 10 Mar – Public Holiday
7	17 Mar		
8	24 Mar	Chemical equilibrium: Le Chatelier’s Principle, Equilibrium expressions, acids, K _a values, pH calculations	
9	31 Mar		
10	7 Apr		Criterion 6: Unit Test
Term 1 break – Saturday 12 April – Sunday 27 April			
1	28 Apr	Inorganic Chemistry: Kinetic Molecular Theory, Gas Laws inc. calculations	
2	5 May		
3	12 May	Atomic spectra, subshell electron configuration, Periodic Table trends	
4	19 May		Criterion 7: Inorganic Chemistry Test
5	26 May	Organic Chemistry: Revision of PSC315 criterion 7, nomenclature, structures, polymers, reactions and properties of functional groups	
6	2 June		Fri 6 June - Moderation Day (LC students work from home)
7	9 June		Mon 9 June – Public Holiday
8	16 June	Mid-year exam revision	
9	23 June		Mid-Year Assessments Level 3 & 4
10	30 June		Mid-Year Assessments Level 3 & 4
Term 2 break – Saturday 5 July – Sunday 20 July			
1	21 July	Organic chemistry: intermolecular bonding, analytical techniques	
2	28 July		Criterion 7: Unit Test
3	4 Aug	Electrochemistry: oxidation states, redox reactions, the electrochemical series, galvanic cells	
4	11 Aug		
5	18 Aug	Corrosion	
6	25 Aug	Electrolysis inc. Faraday calculations	
7	1 Sep		Criterion 5: Unit Test
8	8 Sep	Revision	Criterion 8: Unit Test
9	15 Sep	Revision and optional retests	Optional C6 retest
10	22 Sep		Optional C8 retest
Term 3 break – Saturday 27 September – Sunday 12 October			
1	13 Oct	Revision and optional retests	Optional C7 retest
2	20 Oct		Optional C5 retest
3	27 Oct	Revision and Exam Practice	
4	3 Nov		Mon 3 Nov – Public Holiday
Exams begin (Monday 10 th November) - Exams end (Thursday 20 th November)			

Please note: Dates and assessments are subject to change.

ASSESSMENT

Criterion-based assessment helps students see how well they are meeting course outcomes at the end of their study. While there is continuous feedback to guide learning, final assessments focus on showing what students have achieved by the end. Ratings are given as 'A', 'B', or 'C', based on course standards. A 't' indicates partial achievement below a 'C', and a 'z' means no evidence provided.

Schools follow TASC's quality assurance to keep standards consistent. More details are on the [TASC website](#). Final awards are based on both internal and TASC-supervised external assessments.

Criteria

The assessment for Chemistry Level 4 will be based on the degree to which the learner can:

1. demonstrate personal skills to plan, organise and complete activities
2. develop, interpret and evaluate chemistry experiments
3. collect, process and communicate information
4. demonstrate understanding of the application and impact of chemistry in society
5. identify and apply fundamental principles and theories of electrochemistry*
6. identify and apply principles and theories of thermochemistry, kinetics and equilibrium*
7. demonstrate knowledge and understanding of properties and reactions of organic and inorganic matter*
8. apply logical processes to solve quantitative chemical problems*

* = denotes criteria that are both internally and externally assessed

Award Requirements

The final award will be determined by the Office of Tasmanian Assessment, Standards and Certification from 12 ratings (8 from the internal assessment, 4 from the external assessment).

The minimum requirements for an award in Chemistry Level 4 are as follows:

EXCEPTIONAL ACHIEVEMENT (EA)

10 'A' ratings, 2 'B' ratings (3 'A' ratings, 1 'B' rating from external assessment)

HIGH ACHIEVEMENT (HA)

4 'A' ratings, 5 'B' ratings, 3 'C' ratings (1 'A' rating, 2 'B' ratings and 1 'C' rating from external assessment)

COMMENDABLE ACHIEVEMENT (CA)

6 'B' ratings, 5 'C' ratings (2 'B' ratings, 2 'C' ratings from external assessment)

SATISFACTORY ACHIEVEMENT (SA)

10 'C' ratings (3 'C' ratings from external assessment)

PRELIMINARY ACHIEVEMENT (PA)

6 'C' ratings

A learner who otherwise achieves the ratings for a CA (Commendable Achievement) or SA (Satisfactory Achievement) award but who fails to show any evidence of achievement in one or more criteria ('z' notation) will be issued with a PA (Preliminary Achievement) award.