

OTUMOETAI COLLEGE
NCEA SCIENCE LEVEL 1 – (L1SCIE) 2018

SCIENCE – L1SCIE					
Course Relationship to the National Vocational Pathways					
Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Services Industries	Social & Community Services	Creative Industries
12	16	19	4	8	16
Course Entry	On the basis of their performance in Year 10 course work and assessments, students will be allocated an individual class level (Science or Advanced Learner Science) by the HOD.				
Course Overview	This course involves study from the specialist areas of Biology, Chemistry and Physics to provide students with a Science background to understand everyday Science, prepare for the workforce or to choose further study pathways (secondary and tertiary) in all specialist areas. Science study includes genetics, acids and bases, electricity and mechanics and related scientific issues.				
Assessment	Science courses will be assessed to a selection of Achievement Standards, both internal and external to make a total of 20-24 credits, depending on the student's ability level. Students will be advised on their assessment pathway by their Science teacher or HOD.				
Cost	ICAS Examination [optional]				\$7.00

Aim

1. To provide a context to develop the five key competencies identified in the New Zealand Curriculum - *thinking, using language, symbols, and texts, managing self, relating to others, participating and contributing* – Students will learn to use these competencies to live, learn, work, and contribute as active members of communities.
2. To develop an understanding of the world, built on current scientific theories;
3. To learn that Science involves particular processes and ways of developing and organising knowledge and that these continue to evolve.
4. To use their current scientific knowledge and skills for problem solving and developing further knowledge.
5. To use scientific knowledge and skills to make informed decisions about the communication, application, and implications of Science as these relate to individual lives and cultures and to the sustainability of the environment.
6. To prepare students for success in NCEA Level one examinations and further study pathways.

Description

This course involves study from the specialist areas of Biology, Chemistry and Physics to provide students with a Science background to understand everyday Science, prepare for the workforce or to choose further study pathways (secondary and tertiary) in all specialist areas.

Topics

Mechanics	Acids and Bases
Genetic variation	Electricity and magnetism
Communities impact of diabetes	

Assessment Programme – Achievement Standards 2018

External

AS90940 v3	Demonstrate understanding of aspects of mechanics	4 credits
AS90944 v4	Demonstrate understanding of aspects of acids and base	4 credits
AS90948 v3	Demonstrate understanding of biological ideas relating to genetic variation	4 credits

Internal

AS90941 v3	Investigate implications of electricity and magnetism for everyday life	4 credits
AS90926 v3	Report on a biological issue	3 credits

Assessment Opportunity

Students are expected to complete all assessment activities on or before the due date. A further assessment opportunity will only be offered to classes where practicable. The final decision as to whether the class will be offered a further assessment opportunity lies with the Head of Faculty.

Derived Grades

These are only available for external standards and will depend on evidence available from practice examinations and other assessed work completed in class that is related to the same learning outcomes.

Work Deadlines & Lateness

All work must be handed in **at the beginning of the lesson on the due date**. Work **must be personally delivered to the teacher concerned** and must not be placed in the teacher's pigeonhole or left on the teacher's desk.

All in-class and fieldtrip assessments must be completed on the set day unless **prior approval** has been requested of the individual teacher and approved by the Head of Department.

Assessment tasks handed in late without prior approval, will not necessarily be accepted for marking. The decision to accept or not accept a late assessment tasks will be made by the individual decision. Students who fail to submit work for assessment will be recorded as "not submitted" and can expect to receive a "not achieved" for that standard.

Students enrolled in all Science Department course are entered in all standards being assessed as part of that course unless they negotiate to be removed from that particular standard **at the beginning of the year** and will require written parental permission to be removed from any standard.

How to Appeal a Grade

Appeals against grades awarded should be made following the procedure outlined in the school policy on appeals. Students wishing to appeal a grade must do so within 48 hours of receiving notification of their assessed grade.

Storage of Student Work

The Science Department will retain all student assessment material until it is no longer required by the NZQA for moderation purposes.

Authenticity

Except where specified in the assessment task, all work is to be the student's own. Assessment tasks completed outside of examination conditions will require a signed statement of authentication from students.

Marking and Moderation

Student's work will be marked by the class teacher following NCEA assessment schedules. For marking consistency, some assessment tasks or sections of tasks may be marked by the same teacher for all classes. Moderation will take place at the beginning and end of the marking to ensure consistency between classes.

Resources & Texts

Texts and resource material will only be loaned to students through the bar coded issue system and remain the property of the Science Department. Lost materials and texts will be replaced by the students responsible at his/ her own cost which must be cleared before further texts will be issued.

Welcome to the Science Department. The Science staff are here to help you enjoy your learning and make the most of the learning opportunities provided.

YEAR PLANNER 2018

SUBJECT: Level 1 Science

TERM 1 102 half-days	Week 1 29 Jan – 2 Feb	Week 2 5 - 9 Feb	Week 3 12 - 16 Feb	Week 4 19 - 23 Feb	Week 5 26 Feb – 2 Mar	Week 6 5 – 9 Mar	Week 7 12 – 16 Mar	Week 8 19 - 23 Mar	Week 9 27 - 30 Mar	Week 10 2 – 6 Apr	Week 11 9 – 15 Apr	
Context	Anniversary Day (30) Teacher-only-day Tues 31	Waitangi Day (6)	ACIDS AND BASES Part 1 (Atomic structure/Rates) AS 90944 external			ELECTRICITY AS 90941 internal				Easter Friday Easter Monday Easter Tuesday	ELECT Assessment 1.3	BIO ISSUE
Assessment						1.5 End of topic test.			SUMMER TOURNAMENT WEEK			
TERM 2 98 half-days	Week 1 30 Apr - 4 May	Week 2 7 - 11 May	Week 3 14 - 18 May	Week 4 21 – 25 May	Week 5 28 May – 1 Jun	Week 6 4 - 8 June	Week 7 11 - 15 June	Week 8 18 - 22 June	Week 9 25 - 29 Jun	Week 10 2-6 July		
Context	BIOLOGICAL ISSUE 90926 internal			MECHANICS	Queen's B'day (4)	MECHANICS AS 90940 external		MECHANICS 90940 external				
Assessment			Assessment 1.2				SENIOR EXAMS WEEK					
TERM 3 100 half-days	Week 1 23 - 27 July	Week 2 30 July - 3 Aug	Week 3 6 – 10 Aug	Week 4 13 - 17 Aug	Week 5 20 - 24 Aug	Week 6 27-31 Aug	Week 7 3 - 7 Sept	Week 8 10 - 14 Sept	Week 9 19 - 21 Sept	Week 10 24 - 28 Sept		
Context	GENETICS AS90948 ext					ACIDS Part 2 (pH and Neutralisation)	REVISION			ACIDS Part 2		
Assessment						WINTER TOURNAMENT WEEK		SENIOR EXAMS WEEK				
TERM 4 78 half-days	Week 1 15 - 19 Oct	Week 2 22 - 26 Oct	Week 3 29 Oct - 2 Nov	Week 4 5 – 9 Nov	Week 5 12 - 16 Nov	Week 6 19 - 23 Nov	Week 7 26 – 30 Nov	Week 8 3 – 7 Dec				
Context	ACIDS Part 2	Labour Day (22)	REVISION					TOD 8 Dec				
Assessment				NCEA EXAMS START								