

**OTUMOETAI COLLEGE**  
**NCEA SCIENCE (Earth & Space Science) LEVEL 2 – (L2SCIE) 2018**

SCIENCE – L2SCIE [Earth & Space Science]					
Course Relationship to the National Vocational Pathways					
Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Services Industries	Social & Community Services	Creative Industries
10	6	10	0	17	6
<b>Course Entry</b>	Proven performance (minimum one Achievement Standard) in Level 1 Science and/or on the recommendation of the HOD Science.				
<b>Course Overview</b>	In this course students investigate a wide range of topics that cover all of the Science disciplines outlined in the National Curriculum. The course is an academic course aimed at students who wish to continue studying Science, but who do not wish to specialise in any one branch of Science such as Biology, Chemistry or Physics. Learning activities include both research investigations and practical experimental work. This course leads on to L3SCIE and ultimately tertiary courses.				
<b>Assessment</b>	This course will be assessed to a selection of Achievement Standards, both internal and external, with students having the opportunity to gain up to 20 credits at Level 2.				
<b>Cost</b>	Coursebook				<b>\$28.00</b>

**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 two examinations and further study pathways.

**Description**

This course involves study from the Earth and Space Sciences 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. . It involves the study of a range of subject areas that include Astronomy, Biology, Chemistry, Geology, and Physics.

**Topics**

Extreme Earth Events  
 Stars and Planetary Systems  
 Life in Extreme Environments  
 Validity of information communicated to the public  
 Practical Investigation

## Assessment Programme – Achievement Standards 2018

### External

#### AS91191 Earth and Space Science 2.5

Demonstrate understanding of the causes of extreme Earth events in New Zealand 4 credits

#### AS91192 Earth and Space Science 2.6

Demonstrate understanding of stars and planetary systems 4 credits

### Internal

AS91187 ESS 2.1 Carry out a practical Earth and Space Science investigation 4 credits

AS91188 ESS 2.2 Examine an Earth and Space Science issue and the validity of the information communicated to the public. 4 credits

AS91190 ESS 2.4 Investigate how organisms survive in extreme environment 4 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.

**Finally ..... 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: L2 Earth Space 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	Waihangiri Day (6)	2.5 Extreme Earth Events 91191 Ext.			2.4 Investigating how organisms survive in an extreme environment 91190 Int.				Easter Friday Easter Monday Easter Tuesday	2.1 Int.
Assessment								SUMMER TOURNAMENT WEEK			ASSESSMENT

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 Jun	Week 7 11 - 15 June	Week 8 18 - 22 June	Week 9 25 - 29 Jun	Week 10 2-6 July
Context	2.1 Practical ESS Investigation 91187 Int.					Queen's B'day (4)	2.2 ESS Issue and Validity Int.	2.2 ESS Issue and Validity Int.		
Assessment					ASSESSMENT			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	2.2 ESS Issue and Validity Int.		2.6 ESS Stars and Planets 91192 Ext.						2.5 Ext	
Assessment		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	2.5 Ext	Labour Day (22)	Finish 2.5/2.6 Ext					TOD 8 Dec
Assessment				NCEA EXAMS START				