

**OTUMOETAI COLLEGE**  
**NCEA SCIENCE (Earth & Space Science) LEVEL 3 – (L3SCIE) 2018**

SCIENCE – L3SCIE [Earth & Space Science]					
Course Relationship to the National Vocational Pathways					
Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Services Industries	Social & Community Services	Creative Industries
<b>20</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Course Entry</b>	Proven performance in Level 2 Science or on the recommendation of the HOD Science.				
<b>Course Overview</b>	This course is offered for students who wish to study Science at a senior level, but do not wish to specialise in Biology, Chemistry or Physics. Students may choose to study Science and one specialist Science. The course investigates a very wide range of topics that cover a range of Science disciplines. Learning activities range from research investigations to more traditional experimental work. The course meets the entry requirements for some university courses and polytechnic courses in Health, Environmental Science, Horticulture and Physical Sciences.				
<b>Assessment</b>	This course will be assessed to a selection of Achievement Standards and Unit Standards, both internal and external, with students having the opportunity to gain up to 20 credits at Level 3.				
<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 three examinations and further study pathways.

**Description**

This course involves study of the key concepts of Earth and Space Science to provide students with a science background to understand the world around them, to prepare for the workforce or to choose further study pathways at University and Polytechnic. It involves the study of a range of subject areas that include Astronomy, Biology, Chemistry, Geology, and Physics.

**Topics**

Ocean Systems  
 Atmospheric Systems  
 Aspect of Astronomy  
 Socio-Scientific Issue  
 Dating of Geological Events

## Assessment Programme – Achievement Standards 2018

### External

AS91413	<b>ESS 3.4</b>	Demonstrate understanding of processes in the ocean system	4 credits
AS91414	<b>ESS 3.5</b>	Demonstrate understanding of processes in the atmosphere system	4 credits

### Internal

AS91411	<b>ESS 3.2</b>	Investigate a socio-scientific issue in an Earth and Space Science context	4 credits
AS91415	<b>ESS 3.6</b>	Investigate an aspect of astronomy	4 credits
AS91412	<b>ESS 3.3</b>	Investigate the evidence related to dating geological event(s)	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: L3 Earth and 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	Waihangī Day (6)	3.6 Aspect of astronomy AS91415 Int.				3.4 Ocean Systems AS 91413 Ext.			Easter Friday Easter Monday Easter Tuesday	3.4 Ext.
Assessment							ASSESSMENT	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	3.5 Atmospheric Systems AS91414 Ext.			3.3 Geological Dating AS91412 Int.		Queen's B'day (4)	3.3	3.3 Geological Dating AS91412 Int.			
Assessment								SENIOR EXAMS WEEK	ASSESSMENT		
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	3.2 Socio-Scientific Issue AS91411 Int.					3.5 Ext.			3.5 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	3.4 Ext.	Labour Day (22)	Finish 3.4/3.5 Ext.					TOD 8 Dec			
Assessment				NCEA EXAMS START							