

OTUMOETAI COLLEGE
NCEA SCIENCE (Earth & Space Science) LEVEL 3 – (L3ESS) 2019

SCIENCE – L3ESS [Earth & Space Science]					
<i>Course Relationship to the National Vocational Pathways</i>					
Construction & Infrastructure 20	Manufacturing & Technology 0	Primary Industries 0	Services Industries 0	Social & Community Services 0	Creative Industries 0
Course Entry	Proven performance in Level 2 Science or on the recommendation of the HOD Science.				
Course Overview	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.				
Assessment	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.				
Cost	Coursebook				\$28.00

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 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 2019

External

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

Internal

AS91411	ESS 3.2	Investigate a socio-scientific issue in an Earth and Space Science context	4 credits
AS91415	ESS 3.6	Investigate an aspect of astronomy	4 credits
AS91412	ESS 3.3	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.

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.