



Science

L2BTS Assessment Statement 2018

Course is endorsable

Year : 12

Course : Level 2 Beneath the Surface

Mrs V Pillay

Total Credits : 22

In this course, learners will be engaged in critically evaluating information and linking biological ideas in-depth. This course will develop skills around assessing validity of biological information presented, understanding how structure is related to function and discussing the change in populations through understanding of genetic variation. Contexts for learning could include independent research, fieldwork and data collection and in class practicals. Possible pathways that this course leads to are medicine, health, dentistry, engineering at either diploma or degree level. This course requires a workbook (approx. \$25) and a scientific calculator.

No	Standard Number	Version	Level	Credits	Lit / Num	Full Title	Method of Assessment	Assessment Opportunities Offered	Approximate Date	Grade	Teacher Signature
1	91153	2	2	4	Num	Biology 2.1 - Carry out a practical investigation in a biology context, with supervision	Practical	1	1/03/2018		
2	91154	2	2	3	L1 Lit	Biology 2.2 - Analyse the biological validity of information presented to the public	Assignment	1	1/09/2018		
3	91155	2	2	3	L1 Lit	Biology 2.3 - Demonstrate understanding of adaptation of plants or animals to their way of life	Assignment	1	1/06/2018		
4	91158	2	2	4	L1 Lit	Biology 2.6 - Investigate a pattern in an ecological community, with supervision	Practical	1	1/04/2018		
5	91156	2	2	4	L1 Lit	Biology 2.4 - Demonstrate understanding of life processes at the cellular level	Exam	External	8/11/2018		
6	91157	2	2	4	L1 Lit	Biology 2.5 - Demonstrate understanding of genetic variation and change	Exam	External	8/11/2018		

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Science

L2EEC Assessment Statement 2018

Course is endorsable

Year : 12

Course : Level 2 Exploring Essence of Chemistry

Mrs V Pillay

Total Credits : 23

In this course, learners will be exploring the world from a chemical perspective. This course will develop understanding of Quantitative and Qualitative chemistry followed by Organic, and Atomic Structure and Bonding Principles. Contexts for learning could independent research leading to practical investigations and writing scientific reports. Possible pathways that this course leads to are Medicine, Health Science, Veterinary Science, Physiotherapy, Pharmacy, Occupational Therapy, Medical Laboratory, Food Science and Dentistry. This course requires workbooks (approx. \$25) and a scientific calculator.

No	Standard Number	Version	Level	Credits	Lit / Num	Full Title	Method of Assessment	Assessment Opportunities Offered	Approximate Date	Grade	Teacher Signature
1	91161	2	2	4	Num	Chemistry 2.1 - Carry out quantitative analysis	Practical	1	1/02/2018		
2	91167	2	2	3		Chemistry 2.7 - Demonstrate understanding of oxidation-reduction	Practical	1	18/04/2018		
3	91163	2	2	3	L1 Lit	Chemistry 2.3 - Demonstrate understanding of the chemistry used in the development of a current technology	Assignment	1	18/04/2018		
4	91164	2	2	5	L1 Lit	Chemistry 2.4 - Demonstrate understanding of bonding, structure, properties and energy changes	Exam	External	16/11/2018		
5	91165	2	2	4	L1 Lit	Chemistry 2.5 - Demonstrate understanding of the properties of selected organic compounds	Exam	External	16/11/2018		
6	91166	2	2	4	L1 Lit	Chemistry 2.6 - Demonstrate understanding of chemical reactivity	Exam	External	16/11/2018		

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Science

L2EMF Assessment Statement 2018

Course is endorsable

Year : 12

Course : Level 2 Electromagnetism, Mechanics and

Mrs V Pillay

Total Credits : 22

In this course learners will be engaged in exploring the world from a Physics perspective. This course will develop understanding of Atomic and Nuclear Physics, Conservation of energy and momentum, Physics practical investigation involving research and writing scientific topics and also exploring the Physics of electricity & magnetism. Contexts for learning could include analysing situations in terms of energy and motion, carrying out scientific investigations, and researching technological developments. Possible pathways that this course leads to are Level 3 Physics and careers in engineering, medicine, architecture, environmental studies, armed forces, aeronautics, sports science, astronomy, computing. This course requires a workbook (approx. \$15) and a scientific calculator.

No	Standard Number	Version	Level	Credits	Lit / Num	Full Title	Method of Assessment	Assessment Opportunities Offered	Approximate Date	Grade	Teacher Signature
1	91168	2	2	4	Num, L1 Lit	Physics 2.1 - Carry out a practical physics investigation that leads to a non-linear mathematical relationship	Practical	1	1/08/2018		
2	91169	2	2	3	L1 Lit	Physics 2.2 - Demonstrate understanding of physics relevant to a selected context	Assignment	1	1/06/2018		
3	91172	2	2	3	L1 Lit	Physics 2.5 - Demonstrate understanding of atomic and nuclear physics	Assignment	1	20/04/2018		
4	91171	2	2	6	Num, L1 Lit	Physics 2.4 - Demonstrate understanding of mechanics	Exam	External	16/11/2018		
5	91173	2	2	6	Num, L1 Lit	Physics 2.6 - Demonstrate understanding of electricity and electromagnetism	Exam	External	16/11/2018		

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Science

L2ESEU Assessment Statement 2018

Course is endorsable

Year : 12

Course : Level 2 Earth, Space and Environment

Mrs V Pillay

Total Credits : 22

In this course you will explore the world from a scientific and an environmental perspective. There are no external assessments in this course, though there is an optional exam. The course is made up of standards from L2 Education for Sustainability and Earth & Space Science. This course leads to Level 3 Earth & Space Science, which is approved for University Entrance. Level 3 Earth & Space Science is combination of standards from Education for Sustainability and Earth & Space Science. This course will develop understanding of how to carry out an independent scientific practical investigation, research and writing a scientific report and an understanding of volcanoes and what it means to contribute to a sustainable future. Possible pathways that this course leads to are careers in environmental science or further study in Earth and Space Science. This course requires a fee of \$40 to visit Rangitoto and a general interest in Science and the environment.

No	Standard Number	Version	Level	Credits	Lit / Num	Full Title	Method of Assessment	Assessment Opportunities Offered	Approximate Date	Grade	Teacher Signature
1	90810	3	2	6	L1 Lit, R Lit	Education for Sustainability 2.1 - Undertake a personal action, with reflection, that contributes to a sustainable future	Assignment	1	1/02/2018		
2	90811	3	2	4	L1 Lit, R Lit	Education for Sustainability 2.2 - Explain how human activity in a biophysical environment has consequences for a sustainable future	Assignment	1	1/08/2018		
3	91187	2	2	4	Num, L1 Lit	Earth and Space Science 2.1 - Carry out a practical Earth and Space Science investigation	Practical	1	26/04/2018		
4	91189	2	2	4	L1 Lit	Earth and Space Science 2.3 - Investigate geological processes in a New Zealand locality	Assignment	1	1/06/2018		
5	91192	2	2	4	L1 Lit	Earth and Space Science 2.6 - Demonstrate understanding of stars and planetary systems	Exam	External	16/11/2018		

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Science

L2TOH Assessment Statement 2018

Course is endorsable

Year : 12

Course : Level 2 Biology - Te Ohanga Hauora

Mrs V Pillay

Total Credits : 22

In this course, learners will be engaged in critical thinking and analysis of scientific issues in authentic biology contexts through a Te Ao Maori lens. This course will develop understanding of validity of information to support theoretical ideas, human evolution, socio-scientific issues and develop learners sense of self as Maori. Contexts for learning could include independent research, fieldwork and practical investigations. For more information on standards offered in this course refer to the L2 Chemistry, Biology and Physics courses. Possible pathways that this course leads to are medicine, health and engineering. This course requires a zest for learning pūtaiao in a Te Ao Maori context.

No	Standard Number	Version	Level	Credits	Lit / Num	Full Title	Method of Assessment	Assessment Opportunities Offered	Approximate Date	Grade	Teacher Signature
1	91153	2	2	4	Num	Biology 2.1 - Carry out a practical investigation in a biology context, with supervision	Practical	1	31/05/2018		
2	91155	2	2	3	L1 Lit	Biology 2.3 - Demonstrate understanding of adaptation of plants or animals to their way of life	Assignment	1	1/04/2018		
3	91158	2	2	4	L1 Lit	Biology 2.6 - Investigate a pattern in an ecological community, with supervision	Practical	1	1/02/2018		
4	91154	2	2	3	L1 Lit	Biology 2.2 - Analyse the biological validity of information presented to the public	Assignment	1	30/03/2018		
5						Derived Grade for Biology 2.4 - Demonstrate understanding of life processes at the cellular level	Exam	1	31/10/2018		
6						Derived Grade for Biology 2.5 - Demonstrate understanding of genetic variation and change	Exam	1	31/10/2018		
7	91156	2	2	4	L1 Lit	Biology 2.4 - Demonstrate understanding of life processes at the cellular level	Exam	External	15/11/2018		

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Science

L2TOH Assessment Statement 2018

Course is endorsable

Year : 12

Course : Level 2 Biology - Te Ohanga Hauora

Mrs V Pillay

Total Credits : 22

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No	Standard Number	Version	Level	Credits	Lit / Num	Full Title	Method of Assessment	Assessment Opportunities Offered	Approximate Date	Grade	Teacher Signature
8	91157	2	2	4	L1 Lit	Biology 2.5 - Demonstrate understanding of genetic variation and change	Exam	External	15/11/2018		

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