Name:

Student Mark Sheet: Education for Sustainability 90811 Lake Taupo

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| Evidence for Achievement | Evidence for Merit | Evidence for Excellence |
| The student will need to:   * Explain the characteristics of Lake Taupo as a biophysical environment including: * its ecological system and * one physical system that the ecological system interacts with e.g. geological, hydrological, atmospheric, and climatic. * Evidence of data collection and measurement is found in the student’s logbook. * Explain a nitrogen use and its consequences for the sustainability of the lake environment. e.g.: Why is nitrogen being added? Sources of nitrogen, Nitrogen leaching estimates, Science of how the leaching process works for sources to lake water. * Draw conclusions about the consequences (environmental, economic, social, and cultural) of using nitrogen for a sustainable future. | The student will need to:   * Explain in-depth the characteristics of Lake Taupo as a biophysical environment including: * its ecological system and * one physical system that the ecological system interacts with e.g. geological, hydrological, atmospheric, and climatic. * Evidence of data collection and measurement is found in the student’s logbook. * Explain in-depth nitrogen use and its consequences for the sustainability of the lake environment. e.g.: Why is nitrogen being added? Sources of nitrogen, Nitrogen leaching estimates, Science of how the leaching process works for sources to lake water. * Draw informed conclusions about why the use of nitrogen in the lake environment has consequences (environmental, economic, social, and cultural) for a sustainable future. * Conclusions are based on clear, logical argument, and supported by evidence. | The student will need to:   * Comprehensively explain the characteristics of Lake Taupo as a biophysical environment including: * its ecological system and * one physical system that the ecological system interacts with e.g. geological, hydrological, atmospheric, and climatic. * Evidence of data collection and measurement is found in the student’s logbook. * Comprehensively explain nitrogen use and its consequences for the sustainability of the lake environment. e.g.: Why is nitrogen being added? Sources of nitrogen, Nitrogen leaching estimates, Science of how the leaching process works for sources to lake water. * Draw insightful conclusions about the wider implications of how nitrogen use in a lake environment has consequences (environmental, economic, social, and cultural) for a sustainable future. May include: * Projections of future impacts. * Consideration of options for actions that show personal and social responsibility for a sustainable future. |

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