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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