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SUPERVISOR'S USE ONLY

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90814



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Draw a cross through the box (X) if you have NOT written in this booklet

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Mana Tohu Mātauranga o Aotearoa
New Zealand Qualifications Authority

Level 2 Education for Sustainability 2024

90814 Demonstrate understanding of aspects of sustainability in different contexts

Credits: Four

Achievement	Achievement with Merit	Achievement with Excellence
Demonstrate understanding of aspects of sustainability in different contexts.	Demonstrate in-depth understanding of aspects of sustainability in different contexts.	Demonstrate comprehensive understanding of aspects of sustainability in different contexts.

Check that the National Student Number (NSN) on your admission slip is the same as the number at the top of this page.

You should attempt BOTH parts of the task in this booklet.

Pull out Resource Booklet 90814R from the centre of this booklet.

If you need more room for any answer, use the extra space provided at the back of this booklet.

Check that this booklet has pages 2–8 in the correct order and that none of these pages is blank.

Do not write in the margins (// // //). This area will be cut off when the booklet is marked.

YOU MUST HAND THIS BOOKLET TO THE SUPERVISOR AT THE END OF THE EXAMINATION.

Merit

TOTAL 06

Plan your answers in the box below. Your planning will not be marked.

PLANNING

- included examples
- link to Kaitiakitanga and Manaakitanga
- link to aspects of sustainability
- read the question carefully
- answer the question and what it is asking you

Resource Booklet 90814R contains resources about sustainability issues in three different contexts:

- **Context 1:** Cobalt mining
- **Context 2:** Outdoor air pollution
- **Context 3:** The tipping points of climate change – deforestation

Read all the information in the resource booklet before you answer the task.

TASK

- (a) What are the likely effects on a sustainable future regarding the contexts provided in the resource booklet?

In your answer, refer to:

- at least two of the contexts provided in the resource booklet
- at least two of the four aspects of sustainability (environmental, social, cultural, economic), for each selected context
- the Māori concepts of manaakitanga and kaitiakitanga.

Outdoor air pollution mentioned in Context 2 is likely to negatively effect a sustainable future. Particulate matter is found in dust, soot, dirt and smoke. Wildfires are one of the sources of particulate matter. Wildfires destroy forests which negatively impacts environmental sustainability and kaitiakitanga. Particulate matter can cause sand and dust storms, which are likely to increase due to climate change. Not only do particulate matter effect the environment, but it can also affect humans. "These tiny particles can get deep into the lungs and the bloodstream." This quote shows the clear effects that particulate matter can have on human health. Particulate matter also negatively impacts social sustainability and manaakitanga. Not only is particulate matter affecting human health, it is also one of the main components of wildfire smoke. Wildfires damage and destroy native bush, ~~houses and~~ houses, properties and ~~even~~ can even take human lives. And because of climate change, wildfires are

likely to grow more ~~the~~ intense, which ~~further~~ further affects a sustainable future. Climate change has ~~not only~~ been a main cause in wildfires and particulate matter, and the effects of climate change are only going to increase thanks to deforestation. Mentioned in Context 3, "The Amazon Rainforest houses 1.6 billion acres of Earth's remaining tropical forests." This ~~for~~ information is important because rainforest support various species of plants and animals, with "more than 40 million people depend on the Amazon for agriculture, clothing and traditional medicines." ~~The Amazon rainforest~~ The billions of trees in the Amazon Rainforest absorb tonnes of carbon dioxide ~~and~~ every year, while producing 20% of Earth's oxygen. But because the demand for products like beef and soybeans have grown significantly, the ~~deforestation~~ deforestation rate of the Amazon rainforest has increased. This is negatively affecting environmental and social sustainability, as well as Kaitiaki and manaakitanga. Because of the increase of deforestation has increased, the effects of ~~the~~ climate change has also increased, which then links back to air pollution. Since many people rely on the Amazon Rainforest, deforestation ~~have~~ has severely affected their lives. Many plants and animals are losing their homes because of deforestation. Deforestation releases the carbon that the trees have absorbed, which increases the effects of climate change, which then affects the rest of the world, and negatively affects a sustainable future.

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The assessment continues on the following page.**

- (b) How might the relationships between the aspects of sustainability you identified in (a) contribute to sustainability in the future?

In your answer, you could also consider:

- the wider implications of these relationships
- potential changes in local and/or international practices that would promote sustainability.

Use evidence from your own studies and/or the contexts provided.

Outdoor air pollution is caused by particulate matter, which is one of the main components of wildfire smoke. Wildfires negatively affect the environmental sustainability because it destroys the forests and harm the environment. It can also affect economic sustainability because the wildfires can also destroy houses and property. The particulate matter can affect social sustainability as "the particles can get deep into the lungs and bloodstream". Wildfires can also take the lives of humans. ~~because of~~ Particulate matter can also be caused by domestic heating, so more people using domestic heating alternatives like heat pumps could reduce particulate matter. Wildfires have increased because of climate change and the significant amounts of carbon dioxide released in the atmosphere. Not everyone can afford heat pumps, but something as simple as walking or taking public transport could help reduce carbon significantly, and lessen air pollution. Deforestation has also been a major cause in climate change. Deforestation negatively affects environmental sustainability as it destroys the forests and environment. ~~Deforestation~~ Deforestation can also ~~affect~~ affect social sustainability, because many people may "depend on the Amazon Rainforest for agriculture, clothing and traditional medicines". ~~Because the It could also~~ Although deforestation negatively impacts environmental

and social sustainability, it is positively impacting economic sustainability. This is because the ~~fore~~ land that has been cleared can be used to ~~product~~ produce things such as beef and soybeans. Beef and soybeans are high in demand, but beef and red meats ~~it~~ can have an impact on human health, such as type 2 diabetes or a stroke. This also negatively ~~ef~~ affects social sustainability. Because beef affects both ~~social~~ social and environmental sustainability, eating less red meat could decrease the demand for it. Since the demand for it will decrease, less land will be cleared for it, meaning that less of the environment will be affected. There are also many alternatives to beef and red meat which could even ~~have a better one~~ be better for your health while being environmentally sustainable. These potential changes will ~~can~~ not only positively affect environmental sustainability, but even social and economic sustainability too, because even a small change could have a huge influence.

Merit

Subject: Education for Sustainability

Standard: 90814

Total score: 06

Task	Grade score	Marker commentary
One	M6	The candidate has provided a response that demonstrates a clear understanding of sustainability across several contexts, addressing the question with relevant references to supporting materials from the resources. This included utilising Māori concepts of kaitiakitanga and manaakitanga. The answer was mostly written in the candidate's own words, with occasional paraphrasing.