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91733



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

### 91733 Demonstrate understanding of initiatives that contribute to a sustainable future

Credits: Four

Achievement	Achievement with Merit	Achievement with Excellence
Demonstrate understanding of initiatives that contribute to a sustainable future.	Demonstrate in-depth understanding of initiatives that contribute to a sustainable future.	Demonstrate comprehensive understanding of initiatives that contribute to a sustainable future.

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 ALL parts of the task in this booklet.**

Pull out Resource Booklet 91733R 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**

Manaakitanga - hospitality, generosity, support

Kaitiakitanga - guardianship, stewardship



Resource Booklet 91733R contains resources describing initiatives by organisations that promote sustainable practices and outcomes:

- **Resource A:** Pā to Plate initiative
- **Resource B:** LeaderBrand Produce and Woolworths (formally Countdown) regenerative farming initiative

Refer to BOTH resources in response to the task that begins on page 4.

You may choose to use the following aspects of sustainability in your answers:

**Environmental** – this aspect acknowledges the need to enhance and maintain the biophysical systems that sustain all life on Earth. It includes the structure and function of natural ecosystems and the interactions between them and people, and calls for guardianship/kaitiakitanga of our environment.

**Social** – this aspect acknowledges the need for equity within and between generations, and within and between ethnic and social groups. It includes people's mental and physical well-being and the cohesion of their communities, based on a fair distribution of resources.

**Cultural** – this aspect acknowledges the need to nourish and share attitudes and values that represent diverse worldviews, and the political need for all people to express their views freely and to participate in decision-making. Addressing these needs can build resilience for the future.

**Economic** – this aspect acknowledges the interactions of humans with the natural environment in using resources to create goods and services that add value to their lives. It acknowledges that resource use and waste disposal must occur within the capacity of our planet. It encourages a fair trading system that equitably distributes benefits and costs. It further encourages innovation and creativity in developments that lead to a sustainable future.



## TASK

- (a) (i) Explain the importance of sustainability initiatives in the 21st century for a sustainable future. Refer to TWO of the four aspects of sustainability (environmental, social, cultural, economic).

Aspect 1: Cultural

The pā to plate initiative is culturally important to sustainability in the 21st century and will contribute to a sustainable future. Their way of keeping the traditional customs of the Māori culture while providing healthy produce to urban and rural communities is admirable and will continue to be effective in cultural sustainability.

Leaderbrand & Woolworths regenerative farming initiative does not focus on cultural sustainability as much and does not state anything about the upkeep of Māori culture. However, they state "the project aims to push the boundaries of traditional vegetable growing practices and will trial regenerative practices that more closely mimic nature." This could indirectly contribute to cultural sustainability as they are not planning to disrupt what is already there.

Aspect 2: environmental

The pā to plate initiative will positively impact the environment as they plan to use the linear model of "take, make, dispose". This means any products, materials and resources used ~~are~~ are continually reused or recycled. The aim of this is to reduce waste and "decreasing the associated environmental impact." Their innovative yet culturally respectful initiative will be important in maintaining a sustainable future. Leader Brand & Woolworths initiative focuses mainly on environmental sustainability and will focus deeper on "enhancing the health of the soil, ecosystems, and surrounding environment. It goes beyond sustainable practices by actively working to restore and regenerate the natural resources used in farming."



- (ii) How do the intended outcomes of the two initiatives described in the resource booklet contribute to a sustainable future?

In your answer, refer to the Māori concepts of kaitiakitanga and/or manaakitanga.

Initiative 1 (Resource A): pā to plate initiative

intends to support Northland ~~based~~ marae based growers in providing nutritious food and resources to urban and rural communities. by incorporating traditional knowledge stories of land growing and fostering connections with ancestral marae, the project aims to promote economic development and employment in rural marae communities.

the pā to plate initiative is cultivated according to the principles of tikanga (customs) and kaitiakitanga (guardianship.) along with these values, the organisation also holds ~~the~~ the values of manaakitanga (hospitality, generosity, support) by providing the food and resources to communities as well as kaitiakitanga (guardianship) towards the environment with their 'take, make, ~~disposed~~ dispose closed loop system.

Initiative 2 (Resource B): leaderbrand produce and Woolworths regenerative farming their project aims to "push the boundaries of traditional vegetable growing practices and will trial regenerative practices that more closely mimic nature." while they do not state anything directly about the Māori concepts of manaakitanga and kaitiakitanga, some of their values reflect it. for example, their plan to trial 'cover crops, which are plants grown in between cash crops (those sold to market) to protect and improve the soil quality and health, reflects kaitiakitanga, guardianship towards the environment because cover crops reduce the harm done when harvesting and growing crops. manaakitanga is also shown (hospitality) by composting, which supplies a "variety of nutrients, provides food for soil microbes, and creates healthier soil and crops.



- (b) (i) Compare and contrast one of the initiatives in the resource booklet with another initiative that shares the same aspect(s) of sustainability. This could be drawn from your own studies, or you may use both of the initiatives in the resource booklet.

In your answer, refer to the Māori concepts of kaitiakitanga and/or manaakitanga.

Write the names of both initiatives in the box below:

One initiative from Resource Booklet 91733R: pā to plate (resource A)

Initiative from your own studies OR the other initiative from Resource Booklet 91733R:

chip packet protect (cppnz)

The chip packet protect CPPNZ is an initiative based in Auckland New Zealand that collects used chip packets that would typically be thrown into landfill and instead, recycles them by turning them into insulating blankets for the homeless/less fortunate around Tāmaki Makaurau (Auckland). This initiative contributes to two aspects of sustainability, one being environmental. By removing chip packets from landfill, it not only can be repurposed, but it also stops the chip packet sitting in landfill, and releasing carbon dioxide into the atmosphere as plastic can take up to 80 years to fully break down, but will release CO<sub>2</sub> into the atmosphere the entire time. Similarly, Pā to plate initiative effects the environmental aspect of sustainability by growing produce in a sustainable way that does not disrupt the environment. They do this by using mara kai (Māori gardens) and focus on minimising waste during their activities. Both of these initiatives contribute to a sustainable future, and additionally show kaitiakitanga, and manaakitanga. \*



- (ii) Discuss which of the two initiatives you selected on page 6 is, or has the potential to be, more successful in achieving its intended outcome.

I think that the ~~the~~ pā to plate initiative ~~is~~ has more potential to achieve its intended outcome. as seen in the resource booklet, ~~the~~ Figure 1, the produce looks vibrant, healthy and flourishing. Māra kai (Māori gardens) are a māori culturally important thing and ~~are~~ ~~in~~ have been used historically. the great thing about them, is that they focus on the well being of the soil, and aim to do as little harm as possible to the environment. as "agriculture generates half of New Zealand's greenhouse gasses," using Māra kai is moving closer to cutting the emissions significantly. this reflects kaitiakitanga (guardianship) ~~towards~~ the natural environment. Māra kai includes natural fertilization too. instead of using pesticides or chemical fertilizers, wood ash or organic matter is used. this is Mātauranga (traditional māori knowledge) and ~~is~~ a time honoured technique. according to the initiative. "by investing in age-old techniques, farmers not only meet market demand, but also contribute to the promotion of environmentally friendly agriculture. the pā to plate initiative in my opinion is likely to be successful, but at the least, they are also offering extremely useful knowledge for Māori māra kai farmers on how to maximise their efforts at minimizing their carbon footprint. and overall contributing to a sustainable future.



Extra space if required.  
Write the question number(s) if applicable.

QUESTION  
NUMBER

91733  
b(ii) \* manaakitanga (hospitality) is reflected by the outcomes of both initiatives. this is the people receiving the blankets from cppnz, and the pā to plate would be the ~~peep~~ communities that are receiving the access to the produce being grown. kaitiakitanga is shown (guardianship of the natural environment) in the actions taken. cppnz is guarding the environment by preventing the CO<sub>2</sub> being emitted by the chip packets. Pā to plate is guarding the environment by their minimal waste plan during growing of produce and exporting.



## Merit

**Subject:** Education for Sustainability

**Standard:** 91733

**Total score:** 06

Task	Grade score	Marker commentary
One	M6	<p>A clear understanding of both initiatives was shown. The Māori concepts of kaitiakitanga and manaakitanga were discussed in relation to these initiatives, and ideas were supported with examples. A comparison between one of the initiatives from the resource booklet and one of the candidate's own case studies was effectively made.</p> <p>Conclusions were drawn, but these were simplistic. More detailed examples and evidence about the wider implications of each initiative, and their respective contributions to a sustainable future, would have helped to move this response to Excellence.</p>