



91532

Mana Tohu Mātauranga o Aotearoa New Zealand Qualifications Authority

Level 3 Agricultural and Horticultural Science 2023

91532 Analyse a New Zealand primary production environmental issue

Credits: Five

Achievement	Achievement with Merit	Achievement with Excellence
Analyse a New Zealand primary production environmental issue.	Critically analyse a New Zealand primary production environmental issue.	Comprehensively analyse a New Zealand primary production environmental issue.

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.

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 2–11 in the correct order and that none of these pages is blank.

Do not write in any cross-hatched area (^{ov Wate in t}). 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.

INSTRUCTIONS

Carefully read ALL the instructions and parts before answering.

You must answer the different parts using one primary product.

Name your specific primary product:

Primary product:

STIMULUS MATERIAL

New Zealand's greenhouse gas emissions.

Source: (adapted) https://www.sciencemediacentre.co.nz/2010/07/01/emissions-trading-scheme-launched/

TASK: How the agricultural and horticultural sector is responding to New Zealand's greenhouse gas emissions

(a) How are greenhouse gases emitted in the production of your chosen primary product?

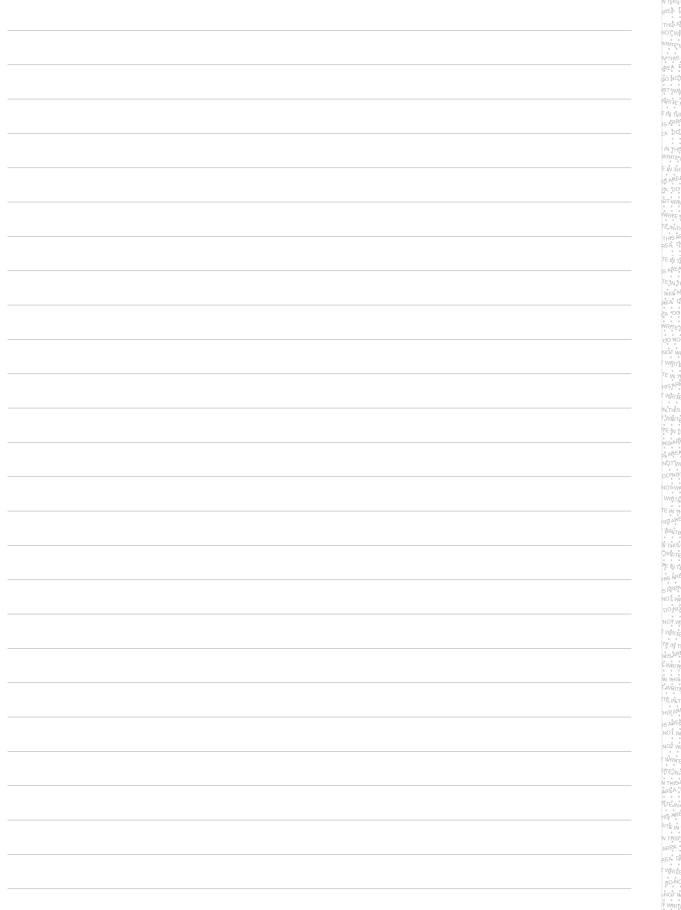
Use recent data (preferably from within the last five years) and other evidence to support your answer.

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(b) What steps are the New Zealand Government and industry taking to reduce the greenhouse gases emitted from the production of your primary product?

Use recent data (preferably from within the last five years) and other evidence to support your answer.



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(c) (i) What specific courses of action can be taken by **the producer** to reduce the greenhouse gases emitted in the production of the primary product?

Course of action (1):	
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Course of action (2):	

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(ii) Justify the course of action that has the most significant impact in reducing greenhouse gas emissions, allowing for sustainable production of your primary product.

You should consider environmental, social, economic, and political impacts.

Use recent data (preferably from within the last five years) and other evidence to support your answer.

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