

90814R



NEW ZEALAND QUALIFICATIONS AUTHORITY
MANA TOHU MĀTAURANGA O AOTEAROA

QUALIFY FOR THE FUTURE WORLD
KIA NOHO TAKATŪ KI TŌ ĀMUA AO!

Level 2 Education for Sustainability, 2017

90814 Demonstrate understanding of aspects of sustainability in different contexts

9.30 a.m. Friday 24 November 2017
Credits: Four

RESOURCE BOOKLET

Refer to this booklet to answer the questions for Education for Sustainability 90814.

Check that this booklet has pages 2–5 in the correct order and that none of these pages is blank.

YOU MAY KEEP THIS BOOKLET AT THE END OF THE EXAMINATION.

BACKGROUND INFORMATION

A carbon footprint is defined as the total amount of carbon-based greenhouse gases produced to directly

[REDACTED]

[REDACTED]

[REDACTED]
long confirmed the critical link between atmospheric carbon dioxide and global warming.



Atmospheric carbon dioxide measured at Mauna Loa Observatory, Hawaii

DEFINITIONS

Manaakitanga is an aspect of Māori custom and identity by which people are made to feel welcome

[REDACTED]
and more.

Kaitiakitanga means guardianship and protection. It is a way of managing the environment, based on

[REDACTED]
forest.

Text source (adapted): <http://timeforchange.org/what-is-a-carbon-footprint-definition>.

Source of definitions:

Manaakitanga: <https://www.teara.govt.nz/en/kaitiakitanga-guardianship-and-conservation>.

Kaitiakitanga: <http://eceonline.core-ed.org/discussion/view/30829>.

Image source: www.CO2.earth.

RESOURCE A: GREEN HOLIDAYS – STAYCATIONS

Air travel is usually the largest component of the carbon footprint of frequent flyers. For



encourage local people to protect the environment in their home town and region.

Text sources (adapted):

<https://www.theguardian.com/environment/2017/jan/19/how-to-reduce-carbon-footprint>.

http://www.environment911.org/A_Green_Holiday_the_Staycation.

RESOURCE B: IMPROVING ENVIRONMENTAL PERFORMANCE THROUGH INNOVATION



In November 2016, Air New Zealand once again “flew” to first place in an annual rating

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ultra-long haul routes where fuel can make up nearly half the total cost.

Text sources (adapted):

<http://www.newshub.co.nz/home/money/2016/11/air-new-zealand-soars-to-top-of-airline-rankings.html>.

<https://www.airnewzealand.co.nz/carbon>.

Image source: <http://dannews.co.nz/tag/air-new-zealand/page/6>.

RESOURCE C: LIFESTYLE CHANGES TO REDUCE CARBON FOOTPRINT

Research led by Oxford Martin School, University of Oxford, has found that the widespread

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impact. I think this will make more of an impression," he said.

Text source (adapted): www.oxfordmartin.ox.ac.uk/news/201603_Plant_based_diets.

Image source: <http://shrinkthatfootprint.com/food-carbon-footprint-diet>.

