

90814R



NEW ZEALAND QUALIFICATIONS AUTHORITY
MANA TOHU MĀTAURANGA O AOTEAROA

Level 2 Education for Sustainability, 2014

90814 Describe aspects of sustainability in relation to a sustainable future

9.30 am Monday 24 November 2014
Credits: Four

RESOURCE BOOKLET

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

Check that this booklet has pages 2–6 in the correct order and that none of these pages is blank.

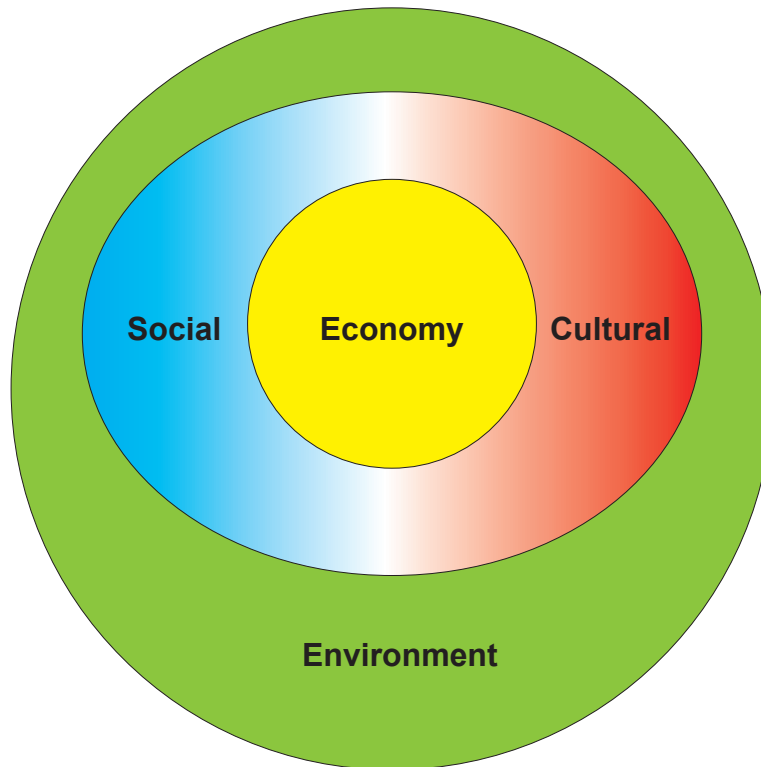
YOU MAY KEEP THIS BOOKLET AT THE END OF THE EXAMINATION.

BACKGROUND INFORMATION

The concept of strong sustainability is based on the scientific fact that all human life and activity occurs within the limitations of planet Earth, or the environment where humans live, including all societal functions, such as the economy.

Without a functioning environment there can be no society, and without a society there can be no societal or cultural functions, including an economy.

Strong sustainability recognises that in order for human civilisation to continue, the true model for sustaining the planet on which we rely to survive should look like this:



STRONG SUSTAINABILITY

Source (adapted): <http://nz.phase2.org/what-is-strong-sustainability>

BACKGROUND INFORMATION

A sustainable future requires the development of ways of thinking and acting to meet the needs of the present generation, without compromising the ability of future generations to meet their own needs.

Concepts relevant to sustainability:

- biodiversity
- personal and social responsibility
- interdependence
- future generations
- values and beliefs
- kaitiakitanga (guardianship and conservation)
- equity and social justice
- conflicts and trade-offs
- market demand
- new ways of thinking and acting
- resource management
- perception
- ecological footprint.

RESOURCES

Choose TWO of the following Contexts A – F to discuss in your answer.

CONTEXT A: THE LIVING BUILDING

Work has begun on Te Wharehou o Tūhoe, the new Tūhoe headquarters in Tāneatua, near Whakatane. It has been designed to have no environmental impact, to be integrated into its surrounding landscape, and to give back to the world around it.

...

“This building is a lighthouse in a world awash with climate change and social inequality, it shows the way to a different future, where we value people and a healthy environment which supports life and the economy, not one at the expense of the other,” a spokesperson for the architect says.

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Source (adapted): <http://arrowinternational.co.nz/news.php?id=49> (accessed 5 January 2014).

CONTEXT B: FOOD AND SOIL

In 1960, when the world population numbered only 3 billion, approximately 0.5 hectare of crop land per person was available; the minimum area considered essential for human survival. The world’s population has now doubled.

...

It takes approximately 500 years to replace 25 millimeters of topsoil lost to erosion. The minimal soil depth for agricultural production is 150 millimeters. Therefore, productive fertile soil is a non-renewable, endangered ecosystem.

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Source (adapted): <http://www.theglobaleducationproject.org/earth/food-and-soil.php>

CONTEXT C: LOCAVORE

The *New Oxford American Dictionary* 2007 Word of the Year was *locavore*: the trend of using locally grown ingredients and taking advantage of seasonally available foodstuffs that can be bought and prepared without the need for extra preservatives.

...

“The word ‘locavore’ shows how food-lovers can enjoy what they eat while still appreciating the impact they have on the environment,” said Ben Zimmer, editor for American dictionaries at Oxford University Press. “It’s significant in that it brings together eating and ecology in a new way.”

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Source (adapted): <http://blog.oup.com/2007/11/locavore/#sthash.38LIKVAJ.dpuf>

CONTEXT D: FAIRTRADE

Struggling to work their way out of poverty, the cacao (cocoa) farmers of southern Belize had their hopes shattered when, in 1991, the price of their crop fell to less than half its former value. Many farmers were left with little choice but to abandon their farms and go off in search of work in far-off towns or on citrus plantations.

...

The minimum Fairtrade price for organic cacao is US\$1 800 a tonne of processed cacao beans, the Fairtrade premium (which is a payment additional to income received selling the cacao) an additional \$150. Many producer groups use the premium to fund community development projects, which they decide on amongst themselves.

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Source (adapted): <http://www.fairtrade.ie/index.php?id=327>

CONTEXT E: CONSERVATION ACTIONS AND PROTECTED AREAS

New Zealand is home to extraordinary levels of endemic species, including its most famous representative, the kiwi. Very few of its mammals, amphibians, or reptiles are found anywhere else in the world.

...

Twelve species of pest mammals and one predatory bird have been successfully eradicated from offshore and oceanic islands in the New Zealand region.

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Source (adapted): <http://www.cepf.net/resources/hotspots/Asia-Pacific/Pages/New-Zealand.aspx>

CONTEXT F: ATTITUDES TOWARDS CLIMATE CHANGE

Climate change legislation introduced in the United States of America in 2012 brought financial costs to businesses, which led to protests. When Hurricane Sandy caused major devastation, this made the impact of climate change real to many people.

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Source: <http://zacharyshahan.com/3-global-warming-cartoons-worth-your-contemplation/>