

90814R



Level 2 Education for Sustainability, 2012

90814 Describe aspects of sustainability in relation to a sustainable future

9.30 am Thursday 15 November 2012
Credits: Four

RESOURCE BOOKLET

Refer to this booklet to answer the question 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.

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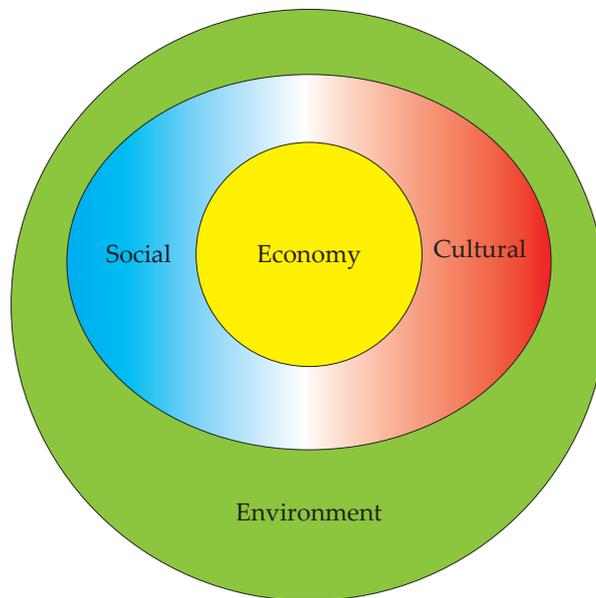
BACKGROUND INFORMATION

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

The **four aspects of sustainability** are:

- Environmental/Ecological
- Social
- Cultural
- Economic.

The four aspects are often represented with the following diagram.



STRONG SUSTAINABILITY

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

Refer to AT LEAST TWO of the following Resources A–E in your answer. You may use the same and/or different resources for each aspect.

RESOURCE A: FUEL OR FOOD

The rate at which oil is being discovered globally has been dropping for decades.

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...have already been accepted as being the main factor behind escalating global food prices.

Source: www.listener.co.nz/current-affairs/science/the-end-of-the-age-of-the-automobile/

The world would need around 600 million hectares of cropland...

... a third of the fuel in Brazilian cars started life as sugar cane.

Source: Danny Chivers, 'Fields of Burning Gold', *New Internationalist*, July 1 2011, pp 25–29.

RESOURCE B: CLIMATE CHANGE

Cartoonists often express feelings and ideas about issues of the moment in ways that bring the issue into sharp focus.

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Source: https://www.nytsyn.com/cartoons/cartoons?channel_id=162&page=24#395834

RESOURCE C: ECOLOGICAL FOOTPRINT

The Global Footprint Network (GFN), an alliance of scientists, calculates how many...

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... Australian environmentalist-entrepreneur.

Source: http://www.nytimes.com/2011/06/08/opinion/08friedman.html?_r=4

RESOURCE D: BIODIVERSITY AND LAND USE

Below is an extract from the seminar paper 'Harnessing Biodiversity', which was part...

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... negative impacts on human health.

Source: http://lens.auckland.ac.nz/images/3/31/Harnessing_Biodiversity_Seminar_Paper2011v2.pdf

RESOURCE E: EQUITY AND SOCIAL JUSTICE

The recent double downgrade of New Zealand's credit rating makes it clear that the...

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... the land, the sea and our young people are cared for. Without them, there is no future.

Source: <http://www.stuff.co.nz/dominion-post/comment/5775709/Our-small-country-needs-a-change-of-heart>

