

ASSESSMENT TASKS

Sustainable Biomes: Assessment Task

Alex Damo, Assistant Principal
Teaching and Learning, St Pius X College
Chatswood

Task: Create a sustainable ratings system for food or clothing

Syllabus Outcomes

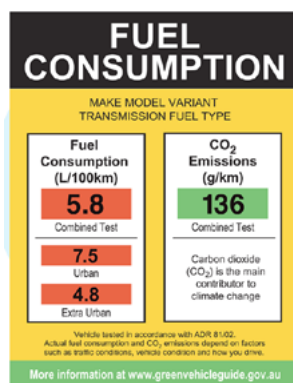
- explains processes and influences that form and transform places and environments GE52
- analyses the effect of interactions and connections between people, places and environments GE53
- assesses management strategies for places and environments for their sustainability GE55
- acquires and processes geographical information by selecting and using appropriate and relevant geographical tools for inquiry GE57
- communicates geographical information to a range of audiences using a variety of strategies GE58

Key Inquiry Questions

- How do people use and alter biomes for food production?
- Can the world's biomes sustainably feed the world's population?
- What strategies can be used to increase global food security?

Introduction

Many of the biomes where our food is produced for global consumption are not natural agricultural lands. We cannot avoid altering biomes to produce food and clothing but what are the consequences? We should be aware of the environmental impacts of the food and clothes we consume.



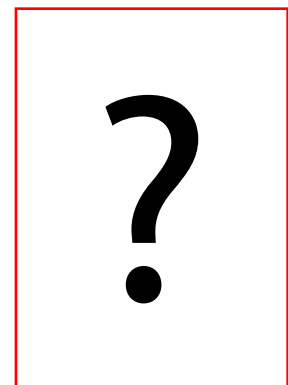
Fuel Consumption



Water Rating



Energy Rating



Sustainable Food

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Scenario

The Australian Government, through the Department of Agriculture and Water Resources, wishes to implement a Sustainable Food Production Rating system for all food and clothing sold in Australia.



All consumers should be aware of the environmental impact of food and clothing they consume and be provided with simple information at the time of purchase to allow them to consider the environmental impact of their purchase.

Every food item whether grown and processed in Australia or imported must have a rating to indicate the environmental impact of growing and processing the food.



Tender

The Department of Agriculture has issued a tender inviting environmental consulting groups to devise a rating system and design a label that would appear on packaging or at the display where food and clothing is sold.

The Rating System must be devised to incorporate the following three factors:

1. Changing Biomes

How has the natural biome been altered to grow/process the food/clothing?

What has been the environmental effects of these alterations?

2. Challenges to Food Production

What environmental challenges are created in growing/producing the food/clothing item?

3. Food Security

How sustainable is the growing/processing of this food/clothing item for future generations?

The tender must be submitted as a report and include the following headings:

1. Rating Label

A completed example of the 'Rating Label' with an extensive description. (150 to 250 words)

2. How the rating is determined

Include an explanation of how a rating is determined by taking into account the three key factors. This needs to include an extensive analysis of each of the three factors supported with examples of both imported and local foods from a range of biomes. (900 words)

3. Demonstration of a Rating

Demonstrate how the rating would work by rating two food/clothing items; one made in Australia, the other imported. Include:

- An explanation of how the rating was applied.
- Name of the environmental consultant preparing the report
- Statement of authenticity from Turnitin



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MARKING GUIDELINES	GRADE
<p>The student has extensive knowledge and understanding demonstrated through:</p> <p>A very high-quality rating label' with an extensive description.</p> <p>Extensive explanation of how a rating is determined based on the three key factors, <i>Changing Biomes, Challenges to Food Production and Food Security</i> supported with three or more examples of both imported and local food from a range of biomes.</p> <p>Application of the rating on two food/clothing items; one imported, one local with extensive explanation</p> <p>Extensive use of the editing process, including structure, word choice, spelling, punctuation and grammar</p>	A
<p>The student has a thorough knowledge and understanding demonstrated through:</p> <p>A high-quality rating label' with a thorough description.</p> <p>Thorough explanation of how a rating is determined based on the three key factors, <i>Changing Biomes, Challenges to Food Production and Food Security</i> supported with two or three examples of both imported and local food from a range of biomes.</p> <p>Application of the rating on one two food/clothing items; one imported, one local with a thorough explanation.</p> <p>Thorough use of the editing process, including structure, word choice, spelling, punctuation and grammar</p>	B
<p>The student has a sound knowledge and understanding demonstrated through:</p> <p>A rating label' of sound quality with an adequate description.</p> <p>A sound explanation of how a rating is determined based on the three key factors, <i>Changing Biomes, Challenges to Food Production and Food Security</i> supported with one or two examples of imported and or local food/clothing from a range of biomes.</p> <p>Application of the rating on one or two food/clothing items with an adequate explanation.</p> <p>Adequate use of the editing process, including structure, word choice, spelling, punctuation and grammar</p>	C
<p>The student has a basic knowledge and understanding demonstrated through:</p> <p>A basic rating label' with a limited description.</p> <p>A basic explanation of how a rating is determined based on some of the three key factors, <i>Changing Biomes, Challenges to Food Production and Food Security</i> supported with limited examples of food/ clothing from a limited range of biomes.</p> <p>Application of the rating on one food/clothing items with a limited explanation.</p> <p>Limited use of the editing process, including structure, word choice, spelling, punctuation and grammar</p>	D
<p>The student has elementary knowledge and understanding demonstrated through:</p> <p>A low quality rating label' with a very limited description.</p> <p>A very limited explanation of how a rating is determined based on some of the key factors, <i>Changing Biomes, Challenges to Food Production and Food Security</i> supported with a very limited array of examples of food/clothing from a very limited range of biomes.</p> <p>No or very limited application of the rating on a food/clothing item; with a very limited explanation.</p> <p>Very limited use of the editing process, including structure, word choice, spelling, punctuation and grammar</p>	E