

## TEXT A: Sheep Migration

This text is an article about sheep behaviour and migration.

Large migrations are some of nature's greatest spectacles. Wildebeest and zebras chase the rains through the Mara ecosystem every year. Monarch butterflies trace a path from Mexico to Canada and back, and tiny songbirds fly nonstop for days at a time. And now scientists are starting to figure out how they know where to go, and when.

Some of these animals, they've found, have their migration pathways written into their genes. A songbird hatched in a laboratory, having seen nothing of the natural world, still attempts to begin migration at the right time of year and in the right cardinal direction.

But large mammals like bighorn sheep and moose are a different story. Wildlife researchers have long suspected that they require experience to migrate effectively, that their annual journeys are the result of learning from one another, not of genetic inheritance. A new study suggests that those hunches may be correct—some animals must learn how to migrate.

The existence of collective information and knowledge, that can be passed from older animals to younger ones, is a form of "culture," researchers explain. And when animals learn as a result of social interaction and the transfer of this information, that's a type of cultural exchange—as opposed to genetic.

On the mountains and plains of North America, massive herds of ungulates<sup>1</sup>—hoofed creatures, like caribou, elk, moose, and bighorn sheep—migrate from high altitude breeding grounds to warmer, lower altitudes during the harsh winter, following the growth of new greenery. Ecologists call this "surfing the green wave," and the new study finds that bighorn sheep and moose have to learn how to surf.

The new study shows that sheep and moose do learn to optimize new routes over time: the longer a population survives in a new habitat, the more effectively its members can surf. Those animals who chance upon a more efficient migration strategy survive longer and leave behind more offspring. Those young learn how to migrate from their mothers, and acquire new knowledge along the way to even further refine their migration strategies.

<sup>1</sup>Ungulates: a mammal with hooves

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Read **TEXT A: Sheep Migration** and then answer **Questions 1(a)–(e)** in your book.

**Question 1**

**(a)** Give **two** examples of animals that migrate according to the text. [1]

**(b)** Using your own words, explain what the text means by:

(i) "nature's greatest spectacles" (line 5). [2]

(ii) "written into their genes" (line 5). [2]

**(c)** Re-read paragraph 3. ("But large mammals like bighorn sheep... how to migrate.") Find **two** suspicions about migration that wildlife researchers have had for a while. [2]

**(d)** Re-read paragraph 3 ("On the mountains and plains... how to surf.")

(i) Identify **two** reasons why the creatures move during the winter. [2]

(ii) Explain what ecologists mean when they say "surfing the green wave". [2]

**(e)** Re-read paragraph 6. ("The new study shows... migration strategies.")

Using your own words, explain how young animals learn migration strategies. [3]

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**Rachel S Tattersall**



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## **Table of Contents Igcse 0500 21 May 2014 Mark Scheme**

1. Understanding the eBook Igcse 0500 21 May 2014 Mark Scheme
  - The Rise of Digital Reading Igcse 0500 21 May 2014 Mark Scheme
  - Advantages of eBooks Over Traditional Books
2. Identifying Igcse 0500 21 May 2014 Mark Scheme
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Igcse 0500 21 May 2014 Mark Scheme
  - User-Friendly Interface
4. Exploring eBook Recommendations from Igcse 0500 21 May 2014 Mark Scheme
  - Personalized Recommendations

- Igcse 0500 21 May 2014 Mark Scheme User Reviews and Ratings
- Igcse 0500 21 May 2014 Mark Scheme and Bestseller Lists
- 5. Accessing Igcse 0500 21 May 2014 Mark Scheme Free and Paid eBooks
  - Igcse 0500 21 May 2014 Mark Scheme Public Domain eBooks
  - Igcse 0500 21 May 2014 Mark Scheme eBook Subscription Services
  - Igcse 0500 21 May 2014 Mark Scheme Budget-Friendly Options
- 6. Navigating Igcse 0500 21 May 2014 Mark Scheme eBook Formats
  - ePub, PDF, MOBI, and More
  - Igcse 0500 21 May 2014 Mark Scheme Compatibility with Devices
  - Igcse 0500 21 May 2014 Mark Scheme Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Igcse 0500 21 May 2014 Mark Scheme
  - Highlighting and Note-Taking Igcse 0500 21 May 2014 Mark Scheme
  - Interactive Elements Igcse 0500 21 May 2014 Mark Scheme
- 8. Staying Engaged with Igcse 0500 21 May 2014 Mark Scheme
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Igcse 0500 21 May 2014 Mark Scheme
- 9. Balancing eBooks and Physical Books Igcse 0500 21 May 2014 Mark Scheme
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Igcse 0500 21 May 2014 Mark Scheme
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Igcse 0500 21 May 2014 Mark Scheme
  - Setting Reading Goals Igcse 0500 21 May 2014 Mark Scheme
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Igcse 0500 21 May 2014 Mark Scheme
  - Fact-Checking eBook Content of Igcse 0500 21 May 2014 Mark Scheme

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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