

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 zebra 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 ungulates¹—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.

¹**Ungulates:** a mammal with hooves

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 1). [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 5 ("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". [3]

(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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