

Biodiversity: *Arctic Tale* Guided Viewing Worksheet

DO NOW: Pre Movie Question

This movie takes place in the **Arctic Tundra**. How diverse is this ecosystem? Explain.

As you watch the movie, answer the questions. Some of the questions are not explicitly stated in the movie but based on what you observe, please write a logical answer. These questions are underlined.

1. What two very diverse organisms are we going to follow in this movie?
2. List three different organisms that live in the tundra that you see during the opening credits.
3. Does your answer to #2 support or reject the answer you wrote for your DO NOW? Explain.
4. How many months did the polar bears live in the cave?
5. What feature(s) do polar bears have that allow them to survive in the tundra? List 2.
6. What feature (s) do walruses have that allow them to survive in the tundra?
7. What is the only threat to Nanu and her family in the tundra?
8. Why is Seela so treasured?

9. What is the one thing that can help the survival of the seal?
10. Predict what would happen to the biodiversity in the tundra if the heat was to increase by ten degrees.
11. Why are summers so “trying” on the polar bears?
12. How does summer increase the biodiversity of organisms living in the tundra?
13. List three “new” organisms that arrive for the summer months.
14. What would happen to the biodiversity if the summer months began to last longer for Nanu and Seela?
15. What do you think accounts for the warmer temperatures?
16. How do the bird’s actions impact the bears?
17. Why does Nanu’s mother force Nanu to separate from her?
18. What adaptive features do the Narwhal’s have?
19. How does the broken ice affect Nanu and Seela?
20. Why is Nanu unable to attack the walruses?

21. How does a single “kill” impact many animals?
22. Why do the walrus know that it is time to leave rock island for their “normal” habitat?
23. What happens to Nanu when she is eight years old?
24. Why is reproducing so important to animals like polar bears in this era?
25. How does this movie represent the “circle of life”?
26. What percent has the Arctic’s ice shrunk by in recent decades and in what year do scientists estimate the ice to be gone?
27. Besides hotter temperatures, what other threats may impact biodiversity of the tundra?
List 5. (HINT: some of these are explicitly observed/stated in the movies; others are opinion)
28. Besides variety of organisms, what other types of biodiversity did you observe while watching the movie?
29. Compare and contrast Nanu and Seela’s journeys in relation to threats that affect biodiversity.

