

Ecosystem Basics Quiz

Real World Ecosystems
Assessment
Grade Level: 5-8



Name:

After completing the section of activities under *Ecosystem Basics* use the following quiz questions for assessment.

1. Name the six natural ecosystem regions of Alberta:

2. Are any of Alberta's ecosystem regions parts of a larger picture of North America? Explain

3. What environmental problem/issue is associated with each of Alberta's ecosystem regions?

Ecosystem	Environmental Problem/Issue

4. What is the definition of an ecosystem?

5. Which of these things can be found in any ecosystem? (Circle your answers)

Landscape	Climate	Organisms
Cave	Flora/fauna	Pesticides
Glacier/icefield	Plant/animal species	Coulee
Sources (food, water and air)	Interactions	Litter
Sandstone/shale	Habitat	Biotic/abiotic factors

6. What is a simpler way to say “biotic” and “abiotic” factors?

7. How are interactions important to an ecosystem?

8. How do ecosystems provide a habitat for plant and animal species?

9. What types of scientific investigations can be used to monitor even small ecosystems like your own schoolyard?

10. How is monitoring used to predict and improve the future of our environment?

11. Give some examples of specific ongoing monitoring programs that you have learned.

12. In what ways are scientists limited in their environmental monitoring?

13. Draw a diagram to show the operation of one of the following systems with a biosphere in a bottle: nitrogen, carbon, oxygen, water.

14. What are some of the characteristics of plants that one should avoid putting into a biosphere bottle? Explain. State two characteristics of plants that could do well in a bottle. Explain.

15. Why should you not place the biosphere bottle in direct sunlight?

16. What is the major difference between using garden soil and sterilized soil in your biosphere bottle?

17. What is one way you can tell that your bottle has too much moisture in it?

18. Name three animals that may live in an Alberta watershed.

19. Why are wetlands sometimes referred to as “nature’s kidneys”?

20. Describe how evaporation from the wetland can be of benefit to Alberta farmers?

21. In the past in Alberta, what one activity drained most of Alberta’s wetlands?

22. In the future, what do you think will be the biggest threat to wetlands? Explain
