

NAME _____

[What is biodiversity?](#)

1. What is biodiversity?

2. How many species of plants and animals are estimated to be in existence? _____

3. How many have been identified? _____

4. What is an endemic species? _____

5. List 3 threats to biodiversity: -

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[Penguins of Patagonia](#)

6. Watch the video about the Penguins of Patagonia. Write a short 3-5 sentence summary of the video including at least 2 facts that you learned from watching.

7. List at least three different animals mentioned that live in this area.

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[Population](#)

8. What is one factor that can cause a population to decrease?

9. What are three main factors limit population expansion? Define them

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Population Dynamics

You will complete the interactive population dynamics study involving lions and bacteria

10. What is a population? _____

11. What is the process called when more organisms enter a population? _____

12. What is the process of more organisms leaving a population than entering it called? _____

13. What happened to cause the lion population to decline in the crater?

14. What do we call the type of growth that the bacteria exhibited? _____

15. What are three limiting factors for the lions?

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16. What factors can cause a population to increase?

17. What factors can cause a population to decrease?

18. List density-dependent factors: _____

19. List density-independent factors: _____

20. What is carrying capacity?

21. Record the coordinates of your line for the carrying capacity for the bacteria

Ecological Succession

22. What are the 3 types of ecological succession? Describe them.

A- _____

B- _____

C- _____

23. What are the 4 stages of succession? List them and describe them.

I- _____

II- _____

III- _____

IV- _____

[Interactive Succession](#)

24. Define Pioneer Species: _____
What is a climax community? _____

25-Sketch the end result of your primary succession:



26-What is secondary succession? _____

27-What happened to your island to cause secondary succession to become necessary? _____

28-From the quiz, list the order in which organisms would appear in a primary succession from first to last:

29-What was your quiz score on the interactive? Have someone witness it and initial next to the score: _____

[Invasive Species](#)

30-What is an invasive species?

Examples:

31-What is an introduced species? _____

Examples:

32-How can you help to stop invasive species in your area? List 2 ways:

[Interactive Food Web](#)

33-What do food webs or food chains show the flow of? _____

34-What is usually the beginning source of energy in a food chain/web? _____

35-What is a producer? _____

36-What is a consumer? _____

37-What trophic type is a blue whale? _____

38-What trophic type is algae? _____

39-Once your food web is correctly built, tell me where a killer whale gets energy from? List 2 sources.

[Ecological Pyramids Virtual Lab activity](#)

Use the link above to answer the questions-Ecological Pyramids Virtual Lab activity-see attached