

# Abiotic vs Biotic Factors

1. What is the definition of an abiotic factor?
2. What is the definition of a biotic factor?

Label the following items as either abiotic (A) or biotic (B):

- |                |                       |                 |                   |
|----------------|-----------------------|-----------------|-------------------|
| 3. _____ whale | 8. _____ glass        | 13. _____ snail | 18. _____ wool    |
| 4. _____ clock | 9. _____ aluminum     | 14. _____ steak | 19. _____ gold    |
| 5. _____ water | 10. _____ metal ruler | 15. _____ bread | 20. _____ plastic |
| 6. _____ fish  | 11. _____ sand        | 16. _____ plant | 21. _____ grapes  |
| 7. _____ paper | 12. _____ clouds      | 17. _____ pipe  | 22. _____ air     |

All biotic and abiotic factors are interrelated. In nature, you will find that if one factor is changed or removed, it impacts the availability of other resources within the system. Knowing this, give an example of what might happen given the following situations:

(In the open space place either an **(A) for abiotic** or **(B) for biotic** to identify the **bolded** object.)

23. All of the **rocks** (\_\_\_\_) are removed from a desert ecosystem, what would happen to the population of rock dwelling **lizards** (\_\_\_\_) and in turn the animals which eat them?
24. A ten mile area of **trees** (\_\_\_\_) is removed from the tropical rainforest. How will this affect the amount of **water** (\_\_\_\_) and the amount of **oxygen** (\_\_\_\_) in the area?
25. List the abiotic and biotic factors in the image below.

**Abiotic Factors**

**Biotic Factors**

