

Learning Target: I can evaluate claims, evidence, and reasoning of the relationships between the physical factors and adaptations of organisms to their environment.

**How Do Species Adapt to Their Environment Video Notes**



1. An adaptation is any \_\_\_\_\_ trait that helps an organism, such as a plant or animal, \_\_\_\_\_ and \_\_\_\_\_ in its own environment.

These characteristics are largely determined by their \_\_\_\_\_, which are passed down from their \_\_\_\_\_ and subsequently passed down to their own \_\_\_\_\_.

2. What are some of the competitive advantages of certain traits? \_\_\_\_\_

If those traits are particularly helpful, individuals with those traits will produce more \_\_\_\_\_ than those without the traits.

3. What happens to the population of organisms with advantageous traits as time goes by? \_\_\_\_\_

4. How have succulent plants adapted to life in dry, hot deserts? \_\_\_\_\_

5. Why do desert plants stomata open at night and not during the day? \_\_\_\_\_

6. Seasonal migration is an example of a \_\_\_\_\_ adaptation. Gray whales \_\_\_\_\_ thousands of kilometers every year as they swim from the cold \_\_\_\_\_ Ocean in summer to the warm waters off the coast of \_\_\_\_\_ in winter.

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7. An \_\_\_\_\_ is an adaptation that developed for one purpose but is used for another. Some traits on the other hand, lose their \_\_\_\_\_ when other adaptations become more important or when the \_\_\_\_\_ changes.

8. What are vestigial organs? \_\_\_\_\_

What are the vestigial organs in humans? \_\_\_\_\_

9. Why were most peppered moths cream-colored with dark spots before the industrial revolution? \_\_\_\_\_

10. Why did population of dark colored peppered moths increase and the cream-colored moths decrease during the industrial revolution? \_\_\_\_\_

11. An adaptation or set of adaptations develop that split one species into two is known as \_\_\_\_\_

12. \_\_\_\_\_ radiation is a type of speciation in which species develop to fill a variety of empty ecological niches or jobs. Give an example of this type of radiation. \_\_\_\_\_

13. What is different about the mammals in Oceania versus the mammals of all other continents? \_\_\_\_\_

14. \_\_\_\_\_ Speciation is the opposite of physical isolation. It happens when species \_\_\_\_\_ the same \_\_\_\_\_. \_\_\_\_\_ are an example of sympatric speciation because they have adapted and share the same \_\_\_\_\_ in Lake Malawi.

15. \_\_\_\_\_ is when organisms adapt with and to other organisms. How are certain flowers and hummingbirds an example of coadaptation? \_\_\_\_\_

16. In \_\_\_\_\_, one organism has adapted to resemble another. Why do certain organisms mimic the shape, color, and behavior of other organisms? \_\_\_\_\_

In summary, certain \_\_\_\_\_ help organisms to better \_\_\_\_\_ and \_\_\_\_\_ in their environment. Organisms that lack these adaptations tend to survive and reproduce \_\_\_\_\_ often leading to their \_\_\_\_\_. In other words, either \_\_\_\_\_ and \_\_\_\_\_ to the environment to survive or become \_\_\_\_\_.