

- How could natural selection best be used to explain the evolution of the white fur of arctic foxes?

Foxes with white fur were best adapted to survive in the white environment so that **SURVIVED** and **REPRODUCED**, passing their traits on to their offspring.

- Does natural selection act on the phenotype (physical characteristics) or genotype (genes) of an organism? Explain.

Natural selection acts on the phenotype because the physical traits determine if the organism will survive or not in its environment.

- Which statement best reflects Darwin's theory of evolution by natural selection?
  - Organisms that are better adapted to their environment will be able to survive and reproduce, passing their favorable genetic variations on to their offspring.
  - A population that gets all of the resources in its habitat will become dominant and force other species out.
  - A community of organisms that work together will get the most out of the resources in their environment.
  - The largest and best organisms in a population are the ones who get all of the breeding opportunities.
- A butterfly with "eyespot" on its wings is better able to survive in its environment because these spots resemble the eyes of a predator. These eyespots on the butterfly's wings are an example of
  - cooperation
  - mutualism
  - competition
  - adaptation**
- What evidence can best be used to lend support to the hypothesis that birds evolved from dinosaurs?
  - a comparison of the diet of the two species
  - a comparison of the habitats of the two species
  - a comparison of the breeding habits of the two species
  - a comparison of the physical structures of the two species**
- Below is a picture of the color point coat of some rabbits.



Which of the following best explains the evolution of this coat coloration in these rabbits?

- It camouflages them.
- It protects them from the sun.
- It helps them blend into the pavement.
- It helps keep the cooler parts of their body warm in cold temperatures.**

- If we look at the body structure of ancient human fossils and compare it to humans today, we can see that the body structure of humans has changed over time. What do we call this change over time? **Evolution**
- When we consider the finches that Darwin observed on the Galapagos Islands, we can see that each species on each island has a different size and shape of beak. Explain why this is so.

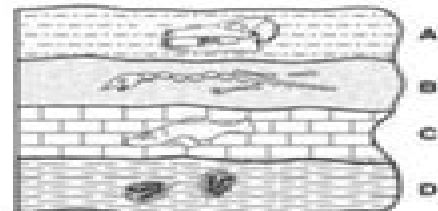
The finches with the size and shape of beak that made them most adapted to eat the food available in their environment are the ones who survived and reproduced, passing their shape and size of beak on to their offspring. The finches adapted to the food source available on the island that they inhabited.

- Explain what happens to organisms that are **UNABLE** to adapt to a change in their environment. **They die out/go extinct**
- Explain how the fossil record provides evidence for evolution.

The fossils in the different rock layers show us how organisms have changed over time. We also have found fossils of transition species (such as Archaeopteryx) that proves that dinosaurs gave rise to birds. Finally, we have fossils of extinct organisms on different continents. Since these animals could not swim, this tells us that, at one time, the continents must have all been together (Pangea).

- When the bone structure of two very different animals is examined, it is discovered that they have very similar bone structures. What does this mean? **They have a common ancestor. They are related.**
- What do we call bone structures that are similar in different animals, even though they have different functions? What do these structures tell us about the organisms in which they are found? **Homologous structures. They have a common ancestor.**
- The fact that very different animals have very similar looking embryos that develop in very similar stages tells us what about those animals? **They have a common ancestor.**

- Consider the rock layers in the picture below.



Which layer in the picture above is probably the oldest? The youngest? **Oldest- Layer D, youngest- Layer A**

# Tcap 8th Grade Science Study Guide

**Gregory J. Cizek**



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