

Evolution Study Guide

1. Name three men whose ideas contributed to Darwin's theory (other than Darwin), and tell what they had to say.

Lamarck- species change over time

Malthus- the number of people in the human population increases faster than the food supply

Wallace – proposed a theory a lot like Darwin's theory of natural selection

2. What specifically, did Darwin observe on the Galapagos islands that led him to develop the theory of natural selection?

Different species of birds were very similar to each other and to mainland birds, but they were each adapted to use a different food source and live in differing environmental conditions

3. State the four points of Darwin's Theory.

- a. Variations exist in a population
- b. The best adapted to an environment survive.
- c. They reproduce and pass on their genes
- d. The fossil record supports this idea.

4. Define:

- a. natural selection- the environment "decides" which individuals in a population are best adapted to it because they will survival & successfully reproduce
- b. adaptation- any change in physical appearance or behavior that helps the members of a population to survive
- c. speciation- formation of a new species from an existing one
- d. reproductive isolation- when members of two different species cannot or will not breed together.
- e. paleontologist- one who studies fossils

5. Contrast gradualism with punctuated equilibrium.

Gradualism- a slow change in a population over time

Punctuated equilibrium- a long period of no changes in a population followed by a period of rapid change, producing new species (usually due to a severe change in the environment)

6. In what way did Darwin's finches vary from each other? What did Darwin think was the cause of the variations? The birds vary in color and patterns in their feathers and in the type and size of their beaks. Darwin thought this was due to where they lived, but especially to what they ate.



7. What is a nonrandom mating type selection?

Inbreeding- choosing a mate from the local population, happens when a population is isolated

Outbreeding- deliberately choosing a mate from a nonlocal population

Choosing a mate for some "desirable" characteristic in the possible mate instead of randomly.

Evolution Study Guide Answers Biology

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