

Skills Worksheet

Directed Reading

Section: Developing a Theory

In the space provided, write the letter of the term or phrase that best completes each statement or best answers each question.

- _____ 1. Evolution is
- a. the mechanism by which individuals change over time.
 - b. the process by which species change over time.
 - c. known to occur by use and disuse of characters.
 - d. change in habitat through time.
- _____ 2. Charles Darwin is credited with
- a. providing evidence for how evolution occurs.
 - b. developing a mechanism for how evolution occurs.
 - c. proposing a theory known as gradualism.
 - d. Both (a) and (b)
- _____ 3. How did Darwin gather a great deal of evidence for evolution at work?
- a. by mere speculation
 - b. by breeding a variety of dogs
 - c. as a naturalist during the voyage of the *Beagle*
 - d. by preparing books about population growth rates
- _____ 4. Darwin learned that there were resemblances between the plants and animals of South America and
- a. Ecuador.
 - b. the Galápagos Islands.
 - c. Australia.
 - d. the English countryside.

Read the question, and write your answer in the space provided.

5. What is artificial selection?

6. What were Jean Baptiste Lamarck's ideas on inheritance?

Directed Reading *continued*

Complete each statement by underlining the correct term or phrase in the brackets.

7. [Descent with modification / Artificial selection] is change in traits in groups over time.
8. Both Lamarck and Darwin proposed that organisms [go extinct in/ adapt to] changing environments.

In the space provided, explain how the terms differ in meaning.

9. linear population growth, exponential population growth
