

Directed Reading B *continued*

9. What hypothesis did Darwin develop about the Galápagos finches?

Match the correct description with the correct term. Write the letter in the space provided.

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|---|-------------------------------|
| _____ 10. the idea that human populations can grow faster than the food supply | a. Lyell's theory |
| _____ 11. the idea that Earth had formed naturally over a long period of time | b. selective breeding |
| _____ 12. the practice of breeding plants and animals to have desired traits | c. Malthus's principle |

13. Why do farmers and breeders use selective breeding?

14. Why might selective breeding be used in horses?

15. Why might selective breeding be used in fruit trees?

16. After reading Malthus's theory, Darwin realized that any species can produce many _____.

17. The populations of all species are limited by starvation, disease, predation, or _____.

18. Darwin reasoned that survivors had traits that helped them

_____ in their environment.

Directed Reading B *continued*

19. Darwin believed that offspring of these survivors inherit the _____ that help them survive.

20. What idea of Darwin's about species was supported by Charles Lyell's book?

DARWIN'S THEORY OF NATURAL SELECTION

21. What was the name of Darwin's famous book?

22. What theory did Darwin introduce in the book?

23. What is natural selection?

Match the correct description with the correct step in natural selection. Write the letter in the space provided.

_____ **24.** Many more offspring are produced than will survive.

_____ **25.** No two offspring are alike.

_____ **26.** Many offspring will be killed before reproducing.

_____ **27.** The best adapted organisms will have many offspring that survive.

a. inherited variation

b. struggle to survive

c. overproduction

d. successful reproduction

28. List two things that Darwin did not know in relation to his theory.
