

# ***Biology***

## Chapter 10: Principles of Evolution

### Multiple Choice

*Identify the choice that best completes the statement or answers the question.*

- \_\_\_\_\_ 1. Which of the following is a term for a group of similar organisms that can reproduce and produce fertile offspring?
  - a. individual
  - b. population
  - c. species
  - d. fossil
  
- \_\_\_\_\_ 2. Which scientist proposed that if an organism used a structure so much that it grew, the trait of that larger structure could be passed to its offspring?
  - a. Erasmus Darwin
  - b. Jean-Baptiste Lamarck
  - c. Georges de Buffon
  - d. Charles Lyell
  
- \_\_\_\_\_ 3. The “present is the key to the past” describes the theory of
  - a. uniformitarianism.
  - b. catastrophism.
  - c. natural selection.
  - d. evolution.
  
- \_\_\_\_\_ 4. Which of the following is a fossil?
  - a. a plant that has recently died
  - b. a group of similar organisms that can reproduce
  - c. a structure or organ that no longer functions
  - d. a trace of an organism that existed in the past
  
- \_\_\_\_\_ 5. The theory that landforms on Earth’s surface, such as mountains, waterfalls, and canyons, were created as the result of sudden spectacular events is called the theory of
  - a. uniformitarianism.
  - b. catastrophism.
  - c. gradualism.
  - d. evolution.
  
- \_\_\_\_\_ 6. The difference in the physical traits of an individual from those of other individuals in a group is called a(n)
  - a. change.
  - b. adaptation.
  - c. species.
  - d. variation.

# Mcdougal Littell Biology Study Guide Answers

**JS Bruner**



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problem a merry go round has an initial angular velocity of  $10.2 \text{ rpm}$  at the end of the ride the brakes are applied giving it a

constant angular deceleration of  $0.032 \text{ rad/s}^2$  as the ride slows to a stop

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rotational kinematics in the section on uniform circular motion we discussed motion in a circle at constant speed and therefore constant angular velocity however there are times when angular velocity is not constant rotational motion can speed up

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evaluate problem solving strategies for rotational kinematics just by using our intuition we can begin to see how rotational quantities like  $\theta$ ,  $\omega$  and  $\alpha$  are related to one another for example if a motorcycle wheel has a large angular acceleration for a fairly long time it ends up spinning rapidly and rotates through many revolutions

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these are only true if the angular acceleration is constant but if it is constant these are a convenient way to relate all these rotational motion variables and you can solve a ton of problems using these rotational kinematic formulas

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problem a fan initially rotates clockwise at  $9.0 \text{ rad/s}$  but has a counterclockwise angular acceleration of  $3.0 \text{ rad/s}^2$  and reaches a counterclockwise angular speed of  $27 \text{ rad/s}$  how much time did this change in the angular velocity take

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likened to a brick wall corneocytes are the tough skin cells that make up the bricks of your skin barrier lipids are natural fats in your skin and in this analogy they re the mortar that fills in the gaps between corneocytes

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the dermis or thick middle layer the subcutaneous fatty layer the epidermis especially its upper layer called the stratum corneum acts as a skin barrier and is your body s first line of

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it would be nearly impossible to list every potential source of skin barrier impairment everything from your genetic makeup to your lifestyle can affect skin barrier health the most significant factors that can impair barrier function include uv radiation smoking and chronic exposure to