



Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

- 1 Which **characteristics** of a population would most likely indicate the **lowest potential** for **evolutionary change** in that population?
- A sexual reproduction and few mutations
  - B sexual reproduction and many mutations
  - C asexual reproduction and few mutations
  - D asexual reproduction and many mutations

- 3 When a duck dives into cold water, the **capillaries in its skin constrict** and move deeper below the surface of the skin.  
This reaction is an example of

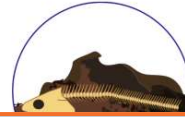
- A homeostasis
- B synthesis



- 2 Fish and snakes are very different organisms, yet they have **many similarities**. What is a possible **biological explanation** for the fact that fish and snakes have so many characteristics in common?
- A they may have a common ancestor
  - B they have different DNA
  - C they both use lungs to breathe
  - D they both lay eggs

- 4 The **remains** of an organism are shown in the illustration below.  
This organism is classified as

- A coelenterate
- B an annelid
- C a chordate



## PREVIEW

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- 7
- A mutation
  - B replication
  - C meiosis
  - D mitosis

- development
- C ovary – delivers nutrients to the embryo
- D sperm – transports genetic material

- 9 Which statement best describes **cellular respiration**?
- A It occurs in animal cells but not in plant cells.
  - B It converts energy in food into a more usable form.
  - C It uses carbon dioxide and produces oxygen.
  - D It stores energy in food molecules.

- 10 Which statement describes all **stable ecosystems**?
- A Herbivores provide energy for the autotrophs.
  - B The populations of predators are dependent on the populations of their prey.
  - C The number of autotrophs equals the number of heterotrophs.
  - D Consumers synthesize ATP from light energy.





## ANSWER KEY

Which **characteristics** of a population would most likely indicate the **lowest potential** for **evolutionary change** in that population?

- A sexual reproduction and few mutations
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- D asexual reproduction and many mutations

(C)

Fish and snakes are very different organisms, yet they have **many similarities**. What is a possible **biological explanation** for the fact that fish and snakes have so many characteristics in common?

- A they may have a common ancestor
- B they have different DNA
- C they both use lungs to breathe
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(a)

When a duck dives into cold water, the **capillaries in its skin constrict** and move deeper below the surface of the skin.

This reaction is an example of

- A homeostasis
- B synthesis
- C respiration
- D



(a)

The **remains** of an organism are shown in the illustration below.

This organism is classified as

- A coelenterate
- B an annelid
- C a chordate
- D an arthropod



(C)



## PREVIEW

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- A mutation
- B replication
- C meiosis
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- C ovary – delivers nutrients to the embryo
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Which statement best describes **cellular respiration**?

- A It occurs in animal cells but not in plant cells.
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(b)

Which statement describes all **stable ecosystems**?

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- C The number of autotrophs equals the number of heterotrophs.
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(b)