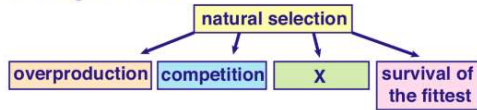




Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

1 Some of the concepts included in **Darwin's theory of natural selection** are represented in the diagram below.

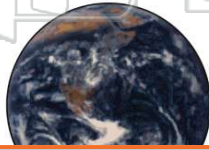


Which concept would be correctly placed in box X?

- A use & disuse
- B variation
- C changes in nucleic acids
- D transmission of acquired traits

3 According to the **heterotroph hypothesis**, which **gas** was lacking in the atmosphere of primitive Earth?

- A ammonia
- B hydrogen
- C methane



2 Although similar in many respects, two species of organisms exhibit differences that make each **well adapted** to the environment in which it lives. **The process of change that may account for these differences is**

- A evolution
- B germination
- C regeneration of lost structures
- D transmission of homologous structures

4 Some scientists suggest that the **mass extinction of dinosaurs** resulted from sudden global weather changes caused by the impact of an asteroid on Earth. This event most likely promoted the **evolution of new species** of animals. **These ideas best support the concept of**

- A punctuated equilibrium
- B use and disuse



5



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7

- B how variations occur within a species
- C the continued increase in the human population
- D the presence of asexual reproduction within a species

concept of

- A use and disuse
- B punctuated equilibrium
- C gradualism
- D enzyme specificity



9

Which statement is **best supported** by **fossil records**?

- A Many organisms that lived in the past are now extinct.
- B Species occupying the same habitat have identical environmental needs.
- C The struggle for existence between organisms results in changes in populations.
- D Structures such as leg bones and wing bones can originate from the same type of tissue found in embryos.



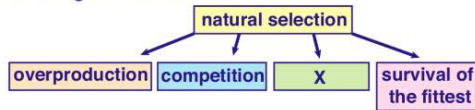
10 The **first life-forms** to appear on Earth were most likely

- A complex single-celled organisms
- B complex multicellular organisms
- C simple single-celled organisms
- D simple multicellular organisms



## ANSWER KEY

Some of the concepts included in **Darwin's theory of natural selection** are represented in the diagram below.



Which concept would be correctly placed in box X?

- A use & disuse
- B variation
- C changes in nucleic acids
- D transmission of acquired traits

(b)

According to the **heterotroph hypothesis**, which **gas** was lacking in the atmosphere of primitive Earth?

- A ammonia
- B hydrogen
- C methane
- D oxygen



(d)

Although similar in many respects, two species of organisms exhibit differences that make each **well adapted** to the environment in which it lives. **The process of change that may account for these differences is**

- A evolution
- B germination
- C regeneration of lost structures
- D transmission of homologous structures

(a)

Some scientists suggest that the **mass extinction of dinosaurs** resulted from sudden global weather changes caused by the impact of an asteroid on Earth. This event most likely promoted the **evolution of new species** of animals. **These ideas best support the concept of**

- A punctuated equilibrium
- B use and disuse
- C gradualism



(a)



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- C the continued increase in the human population
- D the presence of asexual reproduction within a species

- A use and disuse
- B punctuated equilibrium
- C gradualism
- D enzyme specificity



Which statement is **best supported** by **fossil records**?

- A Many organisms that lived in the past are now extinct.
- B Species occupying the same habitat have identical environmental needs.
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(a)

The **first life-forms** to appear on Earth were most likely

- A complex single-celled organisms
- B complex multicellular organisms
- C simple single-celled organisms
- D simple multicellular organisms

(c)