



Name _____ Class _____ Date _____

1 The presence of which **index fossil** in the surface bedrock most likely indicates that a **forest environment** once existed in the region?

- A *Aneurophyton*
- B *Cystiphyllum*
- C *Centroceras*
- D *Bothriolepis*



2 The presence of **brachiopod**, **nautiloid**, and **coral fossils** in the surface bedrock of a certain area indicates the area was once **covered by**

- A tropical vegetation
- B glacial deposits
- C volcanic ash
- D ocean water



3 Which **geologic event** occurred during the **same geologic period** as the **first appearance of modern corals** in Earth's oceans?

- A Grenville Orogeny
- B Acadian Orogeny
- C intrusion of the Palisades Sill



4 A whalebone that originally contained **200 grams** of radioactive carbon-14 now contains **25 grams** of carbon-14.

How many **carbon-14 half-lives** have passed since this whale was alive?

- A 1
- B 2



PREVIEW

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7 According to available fossil evidence, which set of events is listed in the **correct order** from **earliest** to **most recent**?

- A trilobites and mastodons
- B ammonoids and Nettle trees
- C armored fish and flowering plants
- D dinosaurs and early humans



8 Which statement about the species of animals and plants that lived on Earth in the past is best supported by the **fossil record**?

- A 1.1×10^6 years ago
- B 2.4×10^6 years ago
- C 3.3×10^9 years ago
- D 4.6×10^9 years ago



9 According to available fossil evidence, which set of events is listed in the **correct order** from **earliest** to **most recent**?

- A extinction of trilobites, extinction of armored fishes, extinction of dinosaurs
- B appearance of first corals, appearance of earliest insects, appearance of earliest reptiles
- C decline of brachiopods, appearance of amphibians, appearance of earliest grasses
- D development of eurypterids, appearance of earliest birds, appearance of chordates

10 Which statement about the species of animals and plants that lived on Earth in the past is best supported by the **fossil record**?

- A Most became extinct.
- B Most lived on land.
- C Most were preserved in metamorphic rock.
- D Most appeared during the Cambrian Period.





ANSWER KEY

The presence of which **index fossil** in the surface bedrock most likely indicates that a **forest environment** once existed in the region?

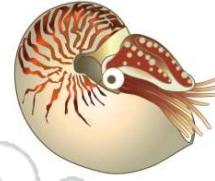
- A *Aneurophyton*
- B *Cystiphyllum*
- C *Centroceras*
- D *Bothriolepis*



(a)

The presence of **brachiopod**, **nautiloid**, and **coral fossils** in the surface bedrock of a certain area indicates the area was once **covered by**

- A tropical vegetation
- B glacial deposits
- C volcanic ash
- D ocean water



(d)

Which **geologic event** occurred during the **same geologic period** as the **first appearance of modern corals** in Earth's oceans?

- A Grenville Orogeny
- B Acadian Orogeny
- C intrusion of the Palisades Sill
- D formation of the



(c)

A whalebone that originally contained **200 grams** of radioactive carbon-14 now contains **25 grams** of carbon-14.

How many **carbon-14 half-lives** have passed since this whale was alive?

- A 1
- B 2
- C 3



(c)



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- B ammonoids and Naupli trees
- C armored fish and flowering plants
- D dinosaurs and early humans

- B 2.4×10^9 years ago
- C 3.3×10^9 years ago
- D 4.6×10^9 years ago



According to available fossil evidence, which set of events is listed in the **correct order** from **earliest to most recent**?

- A extinction of trilobites, extinction of armored fishes, extinction of dinosaurs
- B appearance of first corals, appearance of earliest insects, appearance of earliest reptiles
- C decline of brachiopods, appearance of amphibians, appearance of earliest grasses
- D development of eurypterids, appearance of earliest birds, appearance of chordates

(b)

Which statement about the species of animals and plants that lived on Earth in the past is best supported by the **fossil record**?

- A Most became extinct.
- B Most lived on land.
- C Most were preserved in metamorphic rock.
- D Most appeared during the Cambrian Period.

(a)

