

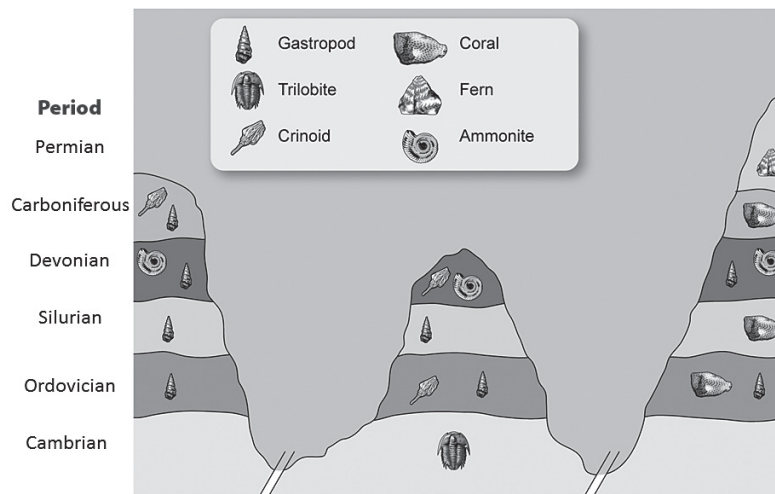
Geologic Time and the Fossil Record

Which Time Intervals in the Past 650 Million Years of Earth's History Are Associated With the Most Extinctions and Which Are Associated With the Most Diversification of Life?

Checkout Questions

Lab 5. Geological Time and the Fossil Record: Which Time Intervals in the Past 650 Million Years of Earth's History Are Associated With the Most Extinctions and Which Are Associated With the Most Diversification of Life?

Use the following diagram to answer questions 1–4. The picture shows a cross-section of Earth's strata and the fossils with the associated organisms discovered in those layers.



1. Crinoids evolved prior to ammonites.
 - a. I agree with this statement
 - b. I disagree with this statement

How do you know?

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2. Which geologic period had the greatest diversification of life?

- a. Cambrian
- b. Ordovician
- c. Devonian

How do you know?

3. Which geologic period had the most extinctions?

- a. Cambrian
- b. Ordovician
- c. Devonian

How do you know?

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4. The reason that crinoids do not appear in the Silurian period is because they went extinct and then re-evolved in the Devonian Period.
 - a. I agree with this statement.
 - b. I disagree with this statement.

How do you know?

5. Scientific knowledge does not change once it has been proven to be a fact.
 - a. I agree with this statement.
 - b. I disagree with this statement.

Explain your answer, using an example from your investigation about geologic time and the fossil record.

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6. All scientific investigations follow the scientific method.

- a. I agree with this statement.
- b. I disagree with this statement.

Explain your answer, using an example from your investigation about geologic time and the fossil record.

7. Scientists often need to look for patterns that occur in the data they collect and analyze. Explain why identifying patterns is important, using an example from your investigation about geologic time and the fossil record.

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8. Natural phenomena occur at varying scales. Explain why scientists need to consider using different measurement or time scales when deciding how to collect and analyze data, using an example from your investigation about geologic time and the fossil record.