

Descent With Modification: A Darwinian View - Reading Objectives (New Book Ch. 22)

Big Ideas of the Chapter:

Descent with Modification by natural selection explains the adaptations of organisms and the unity and diversity of life

Evolution is supported by an overwhelming amount of scientific evidence

Fossils –

What was catastrophism?

What was uniformitarianism?

Summarize what Lamarck hypothesized for his view of how organisms change. Was this accurate?

Adaptation –

What is **Natural Selection** according to Darwin?

Describe what *Descent with Modification* meant to Darwin.

What is **Artificial Selection**? Give an example aside from the one in the book.

What does over-reproduction have to do with evolution?

How has the fossil record been used to support evolution? Give an example.

Homology –

What are **homologous structures**? Give an example.

What are **vestigial structures**? Give an example.

What is an **evolutionary tree**? What does it illustrate?

What is **Convergent Evolution**? Explain it using the term **analogous structures**?

How does **Biogeography** support the theory of evolution? Explain using the terms **continental drift** and **Pangaea**