

Descent with Modification

Chapter 22

1. Use the concept of descent with modification to explain both the relationship between all living things and the diversity of life on the planet.
2. Imagine you discovered a fossil of an extinct mammal that lived at high altitude in the Andes. Predict whether it would more closely resemble present day mammals from South American jungles or present-day mammals that live at high altitudes in the Himalayas. Justify your response.
3. Explain why genetic variation within a population is a prerequisite for evolution.
4. Explain how the statement “Antibiotics have created drug resistance in bacterial species.” is inaccurate.
5. Explain why populations evolve but individuals do not.
6. Explain why homologous structures provide evidence for evolution.
7. Describe how fossils provide evidence of evolution.