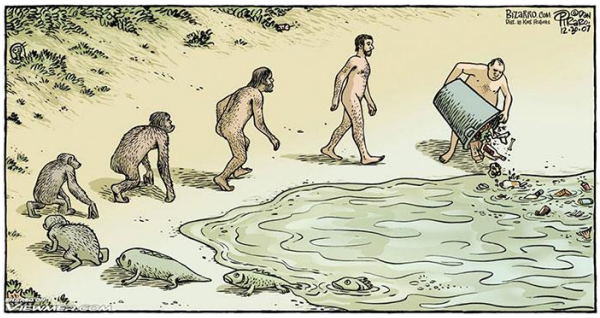
APESreview Ch 3-4: Ecosystems & Evolution



Top 15 Terms for This Exam

Biogeochemical Cycles
Keystone Species
Niche
Tragedy of the Commons
Mass Extinctions
Gene Flow
Trophic Levels
Species Richness
Adaptive Radiation
Indicator Species
Limiting Factor Principle
Laws of Thermodynamics
Introduced Species
Convergent Evolution
Gaia Hypothesis

The Gimme Question for This Exam

The largest extinction in earth's history occurred during which time period

a. permian
b. precambrian
c. cretaceous
d. cenozoic

Video Review Links

Ecosystems
Nitrogen & Phosphorus Cycles
History of Life on Earth
Feedback Loops
Trophic Levels
Hydrologic & Carbon Cycles
Trophic Structure

College Board Objectives

ERT-1.D. Explain the steps and reservoir interactions in the carbon cycle.
ERT-1.E. Explain the steps and reservoir interactions in the nitrogen cycle.
ERT-1.F. Explain the steps and reservoir interactions in the phosphorus cycle.
ERT-1.G. Explain the steps and reservoir interactions in the hydrologic cycle.
ENG-1.A. Explain how solar energy is acquired and transferred by living organisms.
ERT-1.B. Explain how energy flows and matter cycles through trophic levels.
ENG-1.C. Determine how the energy decreases as it flows through ecosystems.
ENG-1.D. Describe food chains and food webs, and their constituent members by trophic level.
ERT-2.A. Explain levels of biodiversity and their importance to ecosystems.
ERT-2.D. Describe island biogeography.
ERT-2.E. Describe the role of island biogeography in evolution.

ERT-2.H. Describe how organisms adapt to their environment.
ERT-3.A. Identify differences between generalist and specialist species.
EIN-2.A. Explain the concept of the tragedy of the commons.
STB-4.H. Explain the causes and effects of ocean acidification.

(ENG=Energy Transfer, ERT=Interactions Between Earth Systems, EIN=Interactions Between Species and the Environment, STB=Sustainability)