APESreview Ch 17-19: Health, Air Pollution & Climate Change

Top 15 Terms for This Exam

Infectious Diseases
Toxicology
LD50
Mutagens
Carcinogens
Threshold Level of Toxicity
Feedback Loops
Clean Air Act
Layers of Atmosphere
Air Pollutants/Greenhouse Gases
Sick Building Syndrome
Ozone Hole
IPCC
Greenhouse Effect
Global Warming

The Gimme Question for This Exam

Which infectious disease kills the most humans per year?
a. HIV/AIDS
b. pneumonia/flu
c. tuberculosis
d. malaria

Video Review Links

Pollution
Climate Change 101
Ozone Good & Bad
Climate Change
CO_2 in Nature
History of Earth's Climate
Ozone Depletion

College Board Objectives

ERT-2.G. Explain how natural disruptions, both short and long-term, impact an ecosystem.
ERT-4.D. Describe the structure and composition of the Earth's atmosphere.
STB-2.A. Identify the sources and effects of air pollutants.
STB-2.B. Explain the causes and effects of photochemical smog and methods to reduce it.
STB-2.C. Describe thermal inversion and its relationship with pollution.
STB-2.D. Describe natural sources of CO2 and particulates.
STB-2.E. Identify indoor air pollutants.
STB-2.F. Describe the effects of indoor air pollutants.
STB-2.G. Explain how air pollutants can be reduced at the source.

STB-2.H. Describe acid deposition.
STB-2.I. Describe the effects of acid deposition on the environment.
STB-3.B. Describe the impacts of human activities on aquatic ecosystems.
STB-3.H. Describe the effect of persistent organic pollutants (POPs) on ecosystems.
STB-3.I. Describe bioaccumulation and biomagnification.
STB-3.J. Describe the effects of bioaccumulation and biomagnification.
EIN-3.A. Define lethal dose 50% (LD50).
EIN-3.B. Evaluate dose response curves.
EIN-3.C. Identify sources of human health issues that are linked to pollution.
EIN-3.D. Explain human pathogens and their cycling through the environment.
STB-4.A. Explain the importance of stratospheric ozone to life on Earth.
STB-4.B. Describe chemicals used to substitute for chlorofluorocarbons (CFCs).
STB-4.C. Identify the greenhouse gases.
STB-4.D. Identify the sources and potency of the greenhouse gases.
STB-4.E. Identify the threats to human health and the environment posed by an increase in greenhouse gases.
STB-4.F. Explain how changes in climate, both short- and long term, impact ecosystems.
STB-4.G. Explain the causes and effects of ocean warming.
EIN-4.C. Explain how human activities affect biodiversity and strategies to combat the problem.
EIN-4.C.4. Global climate change can cause habitat loss via changes in temperature, precipitation, and sea level rise.

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