

EXAM ELEVEN EXPECTATIONS ENVIRONMENTAL SCIENCE “GLOBAL CLIMATE CHANGES”

STATE the predicted (IPCC) global temperature increase by the end of the century
STATE the largest anthropogenic source of carbon emissions
STATE the chemical formula of ozone
STATE the gas that has the greatest impact on climate change
STATE the ecosystem with the greatest risk of species loss over the short term
LIST air pollutants that cool the atmosphere
LIST organisms (from the text) that have been negatively affected by climate change
LIST gases that are accumulating in the atmosphere due anthropogenic sources
LIST gases that can and can not absorb infrared radiation
LIST ozone depleting chemicals and their current use today
LIST "wedges" for reducing carbon dioxide buildup
DISTINGUISH positive and negative feedback from a written account
IDENTIFY greenhouse gases and non-greenhouse gases
IDENTIFY organisms that may actually benefit from climate change
IDENTIFY areas on earth where permafrost has traditionally been found
IDENTIFY abiotic factors that can and can not influence climate change
OUTLINE the negative impacts of deforestation as it relates to climate change
OUTLINE how the earth's average temperatures are measured
OUTLINE the effects of excessive UV exposure
OUTLINE reasons for sea level rises
OUTLINE negative effects of climate change on human health
ANALYZE a line graph of global temperature
ANALYZE a bar graph of carbon dioxide emissions
DESCRIBE the aerosol effect
DESCRIBE negative feedback
DESCRIBE the greenhouse effect
DESCRIBE sulfur emissions
DESCRIBE the effect on global temperatures if hypothetically all greenhouse emissions eliminated today
DESCRIBE Intergovernmental Panel on Climate Change (IPCC)
COMPARE positive and negative feedback
COMPARE pre and post carbon dioxide levels
EXPLAIN the Kyoto Protocol
EXPLAIN the Montreal Protocol
EXPLAIN the predicted outcomes from global climate change
EXPLAIN how we might manage global climate change
EXPLAIN climate models
DISCUSS the change in seasons (timing) seen in the northern hemisphere
DISCUSS the implications of thawing glaciers and polar ice caps
DISCUSS the impact that global climate change will have on organisms in Alaska and Northern Canada
DISCUSS the impacts that global climate change will have on agriculture
DISCUSS the organisms who sequester carbon and store it as calcium carbonate
SUGGEST how climate change may be responsible for the increase in California wildfires