

- explain the correlation between changes in population density, changes in human activities, and changes in the “ecological footprint” of our species
- describe the difficulties involved in predicting climate change

ON 12

Chemistry (College Prep)

Chemistry in the Environment

- identify gases and particulates that are commonly found in the atmosphere, and explain how they affect air quality (e.g., greenhouse gases, tropospheric and stratospheric ozone, carbon monoxide, chlorofluorocarbons, soot)

The Environment and Resource Management (University and College Prep)

Human-Environment Interactions

- explain the effects on human health and the environment of the use and proliferation of elected chemicals
- evaluate the effects of fossil fuel use (e.g., for transportation, heat, manufacturing) on urban and rural environments
- estimate personal and class “ecological footprints” (e.g., based on consumption of resources, production of wastes)

Understanding and Managing Change

- evaluate the impact on both human and natural systems of a selected environmental or resource management problem (e.g., tropical deforestation, climate change, water scarcity)