

# APES Study Guide

## Unit 1: Introduction to Environmental Science

The first unit of APES will acquaint you with environmental science. It introduces theory, philosophy, rhetoric and terminology, which will be used throughout the course.

Textbook Reference: Botkin, Keller, *Environmental Science*, 6<sup>th</sup> edition: Chapters 1, 2 & 28  
Brown, *Plan B 2.0* Chapter 1

Hardin, "The Tragedy of the Commons," *Science*, v163, December 13, 1968. Other Sources: TBA

### Vocabulary - *Must be HANDWRITTEN in your own words to receive credit.*

aesthetic justification accuracy

anthropogenic

carrying capacity

commons controlled experiment

control cost-benefit analysis DDT

dependent variable

developed (more developed)

nations

developing (less developed)

nations

direct costs

Easter Island

environmental science

ecological footprint

ecological justification ecology

experiment externality fishery

free market economy

giga- gross domestic product (GDP) gross national product (GNP)

hypothesis

independent variable

indirect costs

inference

kilo-

marginal costs

micro-

milli-

mega-

moral justification

nonrenewable resource

part per billion (ppb)

part per million (ppm)

per capita

precision pseudoscience

renewable resource

risk-benefit analysis

scientific method

scientific model

scientific theory

sustainability tragedy of the commons

utilitarian justification

### Study Guide Questions (SG Qs):

1. Calculate your ecological footprint (<http://www.myfootprint.org/en/>), print a copy of your report and attach it to this assignment. Identify and describe two areas of your personal resource utilization that surprised you the most and two that were not surprising. List three ways in which you could substantially decrease your ecological footprint, and for each, explain why you will or will not make the change in lifestyle that would be required to decrease your ecological footprint.
2. In *Plan B 2.0*, Lester Brown states that gasoline might cost \$11 per gallon if its price reflected "the full costs to society" of gasoline. List and describe the actions and activities that contribute to those costs.
3. Other than any of those discussed in class, describe a "Tragedy of the Commons" that you have observed or of which you are aware. Identify the commons and the events that have lead to the "tragedy" as well as possible solutions to the "tragedy."
4. Define environmental science. Distinguish between environmental science and ecology.
5. Explain how the meanings of the terms, "theory", "fact", and "law" differ in science and in everyday usage. How do these different meanings lead to confusion?
6. Design a controlled experiment, which could be performed to determine whether a certain air pollutant stunts the growth of a plant species. Identify all variables, include data collection/analysis etc.
7. Define sustainability as it applies to the use of resources. Provide three examples, from your own experience, in which you identify and describe the barriers to attaining sustainability with regards to the use of a resource.
8. Of all of the environmental issues that face the world today (air pollution, water pollution, water supply, human population, deforestation, loss of genetic diversity, global climate change, etc.), which do you think most threatens the continued survival and well-being of human beings? The Earth? Why?
9. Identify and describe a relatively undisturbed natural area that you have visited. For that area, write utilitarian, ecological, aesthetic, and moral arguments for preserving it.
10. With economic development comes urbanization. Discuss the implication that this trend has on the environment. Explain the role of economics in determining public policies. Use examples to illustrate your explanation.

# Apes Study Guide

**H. Alan Robinson**

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