

## Environmental Science Chapter 1: Study

### Section 1

- Definitions

Environmental science	Biosphere	Consumption crisis
Environment	Developed countries	Sustainable world
Nonrenewable resource	Developing countries	Natural resource
Renewable resource	Population crisis	

- Know what the three categories that most environmental problems fall into
- Know at least three examples of each type of resource
- Know what the ecological and environmental effects are of the population and consumption crises
- Know what the products of a sustainable world are
- Know the three things needed to build a sustainable world (sustainability, sound science and stewardship)
- Know the Case Study *Lake Washington: An Environmental Success Story*

### Section 2

- Definitions

Pure science	Ecology	Experiment
Applied science	Hypothesis	

- Know what type of science environmental science is
- Be able to list and define the steps of the scientific method
- Be able to understand data tables and graphs and know what purposes they serve

### Section 3

- Know at least four values in the environmental decision-making model
- Know the steps in environmental decision-making (page 21)

### The Corporation by Joel Bakan

- Know the main points of this reading
- Be able to describe what externalized costs are and why they are important in business
- Know what the cost-benefit analysis is
- Be able to explain in great detail one of the stories mentioned in the chapter and how it relates to externalized costs and the cost-benefit analysis

### One with Nineveh: Politics, Consumption and the Human Future by A. and P. Ehrlich

- Know the main points of this reading
- Know what Nineveh was
- Know what happened to Nineveh
- Know the types of environmental damage that weakened and eventually lead to the demise of Nineveh
- Be able to define the Greek word *hubris*
- Be able to compare the environmental damage of Nineveh with the environmental damage of today

- Know what Paul and Anne Ehrlich predict would happen in the event of an ecological collapse in the modern world
- Know what things are leading to the modern ecological collapse
- Be able to list at least two reasons why we, as citizens of the world, are not doing much to prevent this ecological collapse

#### **Are “Green” Organizations Too White? Article**

- Know the main points of the article
- Be able to define environmental racism
- Be able to define NIMBY

#### **Limits to Growth (Malthusian Ideas) article**

- Know the main points of the article
- Know who Thomas Malthus and what he said
- Know what compound/exponential rate means
- Know how populations can be kept in check
- Know what Malthus said were the three causes of the poor’s living conditions
- Know what Malthus’ solution to the poor’s problem was
- Know who Karl Marx is
- Know how Marx differed from Malthus
- Know what Marx said were the causes of the poor’s living conditions

#### **Class Notes**

- Know what a carrying capacity is
- Know what overpopulation can cause
- Know what China’s “one-child policy” is and its advantages and disadvantages (The Law on Population and Family Planning)