

**University of the Philippines Manila
College of Arts and Sciences
Department of Biology**

**BS Biology
Biology 160
Ecology**

STUDY GUIDE: WEEK 4

Learning Objectives

At the end of this week, you should be able to:

1. Describe the consequences of indiscriminate and unbridled human intrusions in the environment such as pollution, eutrophication, acid rains, biomagnification, ozone layer depletion, global climate change, emergence of wasteland and effects of improper waste management.
2. Discuss the causes of these environmental problems tracing the course of events that lead to these environmental problems
3. Discuss the impacts of these problems on various aspects of the ecosystem including human life
4. Explain the various solutions and measures that could mitigate these problems
5. Suggest measures that you as students can do to contribute to the mitigation of these problems

Activity 1: Study the following short lectures on this general topic for this week which is: Effects of Human Intrusions in the Environment. The eight lectures from 8 to 15 are as follows.

Lecture 8: Pollution
Lecture 9: Eutrophication
Lecture 10: Acid Rains
Lecture 11: Biomagnification
Lecture 12: Ozone Layer Depletion
Lecture 13: Global Climate Change
Lecture 14: Wasteland Reclamation
Lecture 15: Waste Management

The above lectures follow the same outline as follows.

- I. Description or definition of the environmental problem
- II. Causes of the problem
- III. Effects of the problem
- IV. Mitigation of the problem

Activity 2: After going through and understanding the lectures, try to answer the following questions.

1. Describe in detail the human activities that eventually lead to the above environmental problems.
2. For some who continue to deny the problems, the above are but the price that the human population has to pay in the name of progress and development. What can you say to this?
3. As students, what can you do to mitigate these problems?