# Chapter 47

#### Learning Objectives:

* Define biodiversity in terms of species diversity and abundance
* Describe biodiversity as the equilibrium of naturally fluctuating rates of extinction and speciation
* Identify historical causes of high extinction rates in Earth’s history
* Identify chemical diversity benefits to humans
* Identify biodiversity components that support human agriculture
* Describe ecosystem services
* Identify significant threats to biodiversity
* Explain the effects of habitat loss, the introduction of exotic species, and hunting on biodiversity
* Identify the early and predicted effects of climate change on biodiversity
* Identify new technologies and methods for describing biodiversity
* Explain the legislative framework for conservation
* Describe principles and challenges of conservation preserve design
* Identify examples of the effects of habitat restoration
* Discuss the role of zoos in biodiversity conservation

**Directions:**

Have students prepare the review questions and critical thinking questions at the end of Chapter 47. Put them into groups and have them discuss.

You can also have them prepare and turn in these questions for a homework grade.