Chapter 19 Objectives: "WATER POLLUTION"
Answer the following questions:

1. List the categories of water pollutants and give an example of each.
2. List strategies to determine the presence and concentration of water pollutants.
3. Distinguish between *point* and *nonpoint* sources of pollution.
4. Draw an oxygen sag curve to illustrate what happens to dissolved oxygen levels in streams below points where degradable oxygen-demanding wastes are added.
5. List ways to prevent eutrophication and ways to clean up cultural eutrophication.
6. State one pollution problem illustrated by each of the following: Kesterson National Wildlife Refuge, the Great Lakes and Lake Baikal case studies.
7. Discuss the ecosystem issues of *thermal water pollution*. List ways to reduce thermal water pollution.
8. What is happening to the *quality* of coastal waters and how they can be protected, State one ecological principle illustrated by the Chesapeake Bay case study.
9. Describe the status of ocean dumping and oil spills in the ocean. List ways to prevent and clean up ocean pollution.
10. Briefly describe two major laws that protect water quality in the United States. State three strategies to reduce nonpoint pollution.
11. Briefly describe *primary, secondary,* and *tertiary (advanced)* sewage treatment.
12. List the major pollutants of groundwater. Explain why cleanup of groundwater is so difficult. List ways to prevent groundwater pollution.
13. Explain some of the problems with drinking bottled water. Summarize home water-purification devices and their effectiveness in treating different types of water problems.
14. List strategies to shift emphasis from pollution cleanup to pollution prevention.