

## Chapter 17 Objectives: "Air and Air Pollution"

1. Describe the location of the *troposphere* and *stratosphere*.
2. Summarize ways in which humans disrupt Earth's major *gaseous nutrient cycles*.
3. Distinguish between *primary pollutant* and *secondary pollutant*; *stationary source* and *mobile source*; *photochemical smog* and *industrial smog*
4. List the *major classes* of primary outdoor pollutants.
5. Describe a *thermal inversion* and conditions under which it is most likely to occur.
6. Define *acid deposition*.
7. Identify the *level of risk* that acid deposition creates for *ecological systems* and for *human health*.
8. Give one example of the *interactions* which can be set in motion by acid deposition.
9. List *four strategies to prevent* acid deposition.
10. Compare the risks of *indoor* and *outdoor air pollution*.
11. List the *four most dangerous* indoor air pollutants, *potential health effects* of each, and *strategies for dealing* with each.
12. Briefly describe how air pollution affects *human health*, *plants*, *aquatic life*, and *materials*.
13. Summarize the *Clean Air Act* and the *Pollution Prevention Act* (NOT IN TEXT).
14. List six criticisms that environmentalists make about the Clean Air Act.
15. List *three prevention strategies* and *three cleanup strategies* to reduce emissions from *stationary air pollution* sources.
16. Define *emissions trading policy*.
17. List *three prevention strategies* and *three cleanup strategies* to reduce emission from *motor vehicles*.
18. List *three prevention strategies* and *three cleanup strategies* to reduce *indoor air pollution*.