

Name: _____ Date: _____ Block: _____

Miller and Spoolman's Living in the Environment 16th ed.

Chapter 18 Reading Guide – Air Pollution

Case Study – South Asia's Massive Brown Cloud

1. Explain the causes and effects of South Asia's massive brown cloud.

Section 18-1 – What Is the Nature of the Atmosphere?

2. List the layers of the atmosphere and distinguishing characteristics of each.

Section 18-2 – What Are the Major Outdoor Air Pollution Problems?

3. Describe the causes and effects of industrial smog.
4. List the different types of industrial smog.
5. How can industrial smog be reduced?
6. Describe the causes and effects of photochemical smog.
7. How can photochemical smog be reduced?
8. Describe ways scientists detect air pollutants (Science Focus).

Section 18-3 – What Is Acid Deposition and Why Is It a Problem?

9. Describe the causes and effects of acid deposition.
10. How can acid deposition be reduced?
11. Summarize the Hubbard Brook experiment. Why was it conducted? What did the data show? (Science Focus)

Section 18-4 – What Are the Major Indoor Air Pollution Problems?

12. Describe the causes and effects of the major indoor air pollutants.
13. How can indoor air pollution be reduced?

Section 18-5 – What Are the Health Effects of Air Pollution

14. Summarize the effects of air pollution on the human body.

Section 18-6 – How Should We Deal with Air Pollution?

15. Describe the legal tools that can be used to deal with air pollution.

16. What economic tools are available to deal with air pollution?
17. Summarize the technological tools that can be used to deal with air pollution.
18. Explain why reducing and preventing air pollution should be a priority.