

10. Table 13-2 shows trends in air quality and emissions. Explain why ozone appears on the 'percent change in air quality' portion of the table but does not appear on the 'percent change in emissions' portion.
11. The average car today gives off less pollution than 30 years ago. Why have the positive effects of this decline not been as great as we might have expected?
12. Why are air pollution problems more acute when winds are weak or calm?
13. How do temperature inversions influence air pollution?
14. Describe the formation of a surface inversion and compare it with an inversion that occurs aloft.

15. How does the geographic setting of Los Angeles contribute to the air pollution episodes it experiences?
16. How much more acidic is a substance with a pH of 4 compared with a substance with a pH of 6?
17. How has the buildup of tall smokestacks contributed to interregional air pollution problems?
18. List some possible environmental effects of acid precipitation.

19. Define the following terms by using your book and/or the web site at www.rsffa.com, go to Meteorology link and play the hangman game

- a. Acid precipitation --
- b. Air pollutants –
- c. Mixing depth –
- d. Photochemical reaction –
- e. Primary pollutant –
- f. Secondary pollutant –
- g. Smog --
- h. Temperature inversion –
- i. Kyoto Protocol –
- j. Haze –
- k. Particulate matter –
- l. Toxic air pollutants –
- m. Lead–
- n. Carbon monoxide –
- o. Radon –
- p. Biological contaminants –
- q. Inversion–