

APES- Chapter #23- Air Pollution

Name: _____

- 1) When discussing atmospheric pollutants- **what is a “sink”?** *Explain.*

- 2) **Compare and contrast** the *London 1952 fog event* with smog problems in the *Los Angeles basin*.

- 3) Why do some people use “*slash and burn*” methods for clearing fields? *How does this practice contribute to air pollution? Explain.*

- 4) The word **SMOG** is a mixture of the words _____ and _____.
- 5) Define the following types of pollution:
 - **Point Sources:**
 - **Fugitive Sources:**
 - **Area Sources:**
 - **Mobile Sources:**
- 6) List a *general effect of air pollution* for each of the following:
 - Cities:
 - Vegetation:
 - Human Health:
 - Soils
 - Water
 - Buildings

- 7) What are some of the *human health effects* of air pollution?

8) What is a *synergistic effect of air pollutants*? How can this be dangerous?

9) **Choose 2 major air pollutants** and list the *effects on people, plants and materials*:

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10) What is the *difference* between primary and secondary pollutants? **Give an example of each.**

11) **Why** is acid deposition a major environmental problem, and *how can it be minimized*?

12) What are some **damages** caused by acid rain?

13) Why does air pollution *vary by different regions of the world*? What causes these changes?

14) Why does *Las Vegas* have such bad air?

15) How it is possible that somewhere, such as the *North Slope of Alaska*, be affected by pollution?

16) How does **atmospheric inversion** trap pollution in cities? Explain.

17) What **4 conditions contribute to the potential for air pollution** in urban areas?

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18) Define **photochemical smog and sulfurous smog** and *explain how they are formed*.

19) What are *some strategies* the United States is taking to help air pollution in the future?

20) Explain *what is happening in Mexico City* and what are some possible solutions?

21) How can air pollution be controlled in the following areas:

- **Particulates:**
- **Automobiles:**
- **Sulfur Dioxide:**

22) Explain how **coal gasification** can help with air pollution.

23) What is **gas desulfurization or scrubbing**?

24) Explain the **Clean Air Act Amendments of 1990**:

25) What is the **Air Quality Index**? What does it measure?

26) *Why is it so difficult* to establish national air quality standards?

Summarize what you learned about air pollution. In a highly technological society, it is possible to have 100% clean air? It is feasible or likely in the future? Explain.