

Name: _____

Lab: There is Murder in the Air MAKEUP ASSIGNMENT

Remember: As per GHHS Policy, you have two days for each day absent to makeup assignments.

(modified from NYS Dept of Enviro Conservation & Clue by Hasbro)

What We Did in Class:

Students played a game based on the Hasbro board game "Clue". In this case, all the crimes were committed by pollutants in various countries.

Procedure:

Since it is not possible for you to make up the game, you'll need to learn the same information through basic research and a short video. The nine pollutants were:

Asbestos

Carbon Monoxide

Lead

Mercury

Nitrogen Oxides

Ozone

PM 10

Radon

Sulfur Dioxide

Analysis Questions:

1-9. For each of the nine pollutants listed above, provide a description and source.

10. Name the United States federal law that controls these pollutants.

11. Identify four of the nine pollutants that you think could be found in Cary, NC.

12. How could the effects of each of the four pollutants identified in #11 be mitigated?

13. Choose one pollutant you feel would most influence your life and explain why.

Watch the video <http://www.bozemanscience.com/ap-es-029-air-pollution> and answer the following

14. What led to air pollution legislation in Europe?

15. Explain the difference between primary pollutants and secondary pollutants.

16. Name the three examples of secondary pollutants given in the video.

17. Name the three basic types of air pollution sources.

18. Where do we most see the human health effects of air pollution?

19. Why is SO₂ more prominent in the eastern half of the United States?

20. Explain the graph of ozone shown in the video.

21. Explain the temperature inversion described in the video.

22. How does smog form (chemically)?

23. List three examples of technology used to clean up air pollution.

24. What have you learned from this makeup lab?