

APES - Toxic Chemicals Project

Due Date: _____

Purpose: To learn and teach about a common environmental toxin

Directions: Choose one toxin from the list below. You will create a **HAZARDOUS WASTE WARNING POSTER** (8 1/2 x 11') of one of the toxins listed below (or one of your choosing) and present to the class.

- | | |
|-------------------------|--|
| 1. Acetone | 20. Mercury |
| 2. Ammonia | 21. Methane |
| 3. Arsenic | 22. Ozone (Tropospheric) |
| 4. Asbestos | 23. Polychlorinated
Biphenyls (PCB's) |
| 5. Atrazine | 24. Polycyclic Aromatic
Hydrocarbon (PAH's) |
| 6. Benzene | 25. Radon |
| 7. BPA (Bisphenol A) | 26. Sulfur Dioxide |
| 8. Cadmium | 27. Toluene |
| 9. Carbon Monoxide | 28. Perchlorates |
| 10. CFC's | 29. Phthalates |
| 11. Chlorine | 30. Nitric Oxide |
| 12. Copper | 31. Methanol |
| 13. DDT | 32. Organophosphates |
| 14. Dioxin | 33. Oil (Spills) |
| 15. Gasoline | 34. PBDE's |
| 16. Glycol Ethers | |
| 17. Formaldehyde | |
| 18. Hexavalent Chromium | |
| 19. Lead | |

You will make a **HAZARDOUS WASTE WARNING POSTER** that includes the information below: (30pts)

- Picture of toxin
- Chemical formula of toxin
- Environmental hazards
- Human Health hazards
- Current Event (within last 5 yrs) that relates to toxin

You will also need to turn in a 1-2 page report (with bibliography) that includes the following: (70 pts)

1. Describe the chemical. Include the chemical formula and picture (5 pts)
2. How and why are they needed and used? (10 pts)
3. What happens when it enters the environment? (10 pts)
4. How can humans be exposed to the chemical? (5 pts) Transmitted?
5. How does it affect human health? Diseases? (10 pts)
6. What kind of recommendations has the Federal Government made to protect human health? (Make sure that you include information about the legislation or agency involved) (10 pts)
7. Discuss a case study where (a) this chemical created a hazardous situation and (b) How was this issue resolved? (20 pts)

Total: _____ / 100 Pts

