

## WASTE TEST STUDY GUIDE

1. How does a catalytic converter work (what goes in and what comes out ...)?
2. What are 3 technologies that are employed to reduce particulate matter?
3. What technology reduces acidic sulfur emissions from smokestacks? What substance is used to accomplish this?
4. What occurs during the primary phase of wastewater treatment?
5. What is activated sludge?
6. What is used in the final disinfection stage of wastewater treatment?
7. What substance did "Cap and Trade" address? What governmental initiative was this an amendment to?
8. What is e-waste? How is e-waste dealt with in the United States?
9. Why have some states banned the disposal of e-waste in landfills?
10. What are 3 major problems related to the use of landfills to dispose of our waste?
11. What is the main benefit of incinerating trash?
12. What does a waste-to-energy (WTE) facility do? Name one local facility that is WTE.
13. What are some by-products of incineration that pose a danger to the environment?
14. What are two ways a community deals with wastewater from houses, schools, and businesses?
15. What is the difference between the Clean Water Act and Safe Drinking Water Act?
16. What is considered the largest "garbage dump" in the world? What is it composed of and why does it exist?
17. What are 2 substances that sewage treatment does not remove entirely from wastewater?
18. How is phytoremediation used to clean up hazardous wastes in the environment?
19. What is meant by bioremediation of hazardous wastes?
20. What are some examples of permanent storage facilities for hazardous wastes?
21. Which law has the nickname "cradle to the grave" referring to the tracking of hazardous wastes?
22. What event led to the creation of the Superfund (CERCLA)?
23. What is the difference between open and closed loop recycling?
24. What is meant by integrated waste management?
25. What are some examples of hazardous wastes that needs to be disposed of with care (i.e. brought to a hazardous waste collection site)?
26. What are some precious metals recovered from the dismantling / shredding of e-waste?
27. Of the "4 R's", which requires the least amount of energy? Which requires the most?
28. How does a sanitary landfill mitigate environmental issues such as air, water, and soil contamination?
29. What do the letters NPL refer to? Which law provides remedial response for locations assigned the NPL designation?
30. What is Drax? Why does it serve as an excellent example of input pollution control?