

Review WS Ch 19

Name _____

Date _____ Period _____

1. _____ Tending to remain inside a biological organism, rather than being expelled or broken down. Examples include PFOA, PFOS, and C8.
2. _____ A change in design, manufacture, purchase, or use of materials that makes them less toxic before they become waste.
A. Compost
3. _____ A waste disposal facility where wastes are put in the ground and covered each day with a layer of dirt, plastic, or both.
B. Municipal solid waste
C. Leachate
D. Surface impoundment
4. _____ Decomposing organic matter that can be used as fertilizer and soil conditioner.
E. Source reduction
F. Biopersistent
5. _____ Solid waste produced by businesses and households.
G. Landfill
6. _____ Underground hazardous waste disposal method.
H. Deep-well injection
7. _____ A pond or hole to hold waste on the surface of land.
8. _____ Liquid that has passed through waste and become contaminated.
9. _____ Most of the municipal solid waste in the United States is
A. Stored in landfills
B. Recycled
C. Incinerated
D. None of the above
10. _____ One disadvantage of degradable plastic is that
A. It has to be blended with plant sugars in order to be useful.
B. It has to be exposed to sunlight in order to degrade.
C. It is toxic and useful only in industry.
D. The plastic parts are reduced to smaller pieces called microplastics, but are not completely degraded.
11. _____ Which regulation requires producers of hazardous wastes to document how their wastes are handled?
A. The Superfund Act
B. The Resource Conservation and Recovery Act
C. The United States Environmental Protection Agency (EPA)
D. The Love Canal Act
12. _____ Which of the following is the most important function of a landfill?
A. To provide leachate for other industrial processes.
B. To contain buried waste and prevent it from contaminating the environment.
C. To be as inexpensive as possible to build.
D. All of the above.

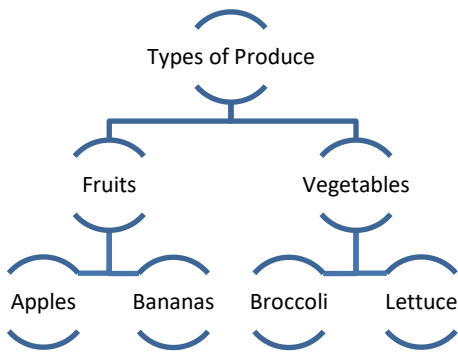
13. _____ Which of the following is NOT a benefit of incinerating waste?

- A. It reduces the material sent to landfills.
- B. It produces energy in the form of heat.
- C. It can be used to produce electricity.
- D. It neutralizes all of the toxic materials.

14. _____ If 95.6% of nuclear waste is unused uranium, why is it not recycled often?

- A. The process is too expensive.
- B. There is not enough nuclear waste to bother recycling.
- C. The leftover plutonium could be used for weapons.
- D. The waste decays after only a few years, so there is no need.

15. Use the following terms to create a concept map: *solid waste*, *hazardous waste*, *landfills*, *types of waste*, *surface impoundment*, *methods of waste disposal*, *incineration*, and *deep-well injection*. An example of a concept map is given below.



16. How do plastic liners and layers of clay help protect the environment around a landfill?

17. Every year, the US generates more than 10 billion metric tons of solid waste, but only _____ of that is recycled.

18. The average American produces 4.4 pounds of solid waste per day. What are three ways that you can reduce your average daily waste?

- 1.
- 2.
- 3.

19. Are products made from natural materials (like 100% cotton clothing and leather) considered biodegradable? *Circle One:* YES NO

20. Are most synthetic products considered biodegradable? *Circle One:* YES NO

21. Give two examples of synthetic materials:

1. _____
2. _____

22. Tetra-Pak is considered a recyclable material worldwide. Why is not recyclable within the Western half of the United States?

23. In the movie "The Devil We Know," why couldn't scientists link Buckey's birth defects to his mother's exposure to C8 during her pregnancy?

24. PFOS, PFOA, C8, and GenX all belong to a perfluorinated chemical family that has identifiable links with various cancers and diseases. Both companies mentioned in "The Devil We Know" made formal statements that these chemicals were burned off during the manufacturing process and that their Teflon products had none (or insignificant amounts) of these chemicals. So, why is there such an uproar about the use of these products?

25. *Opinion Question:* Has learning about the Teflon industry and how the products are made changed your perspective on whether or not you will use the product? Please explain why or why not.