High School Waste Management Fundamentals

Environmental Science · Answer Key · 10 Questions

1. In the traditional waste management hierarchy, what do the '3 Rs' stand for?

A) Reduce, Reuse, Recycle
B) Remove, Refuse, Relocate
C) Replant, Restore, Renew
D) React, Rebuild, Recover

2. Which biological process decomposes organic waste like food scraps into nutrient-rich soil conditioner?

A) Incineration
B) Composting
C) Pyrolysis
D) Gasification

3. Which toxic heavy metal is commonly found in older electronic waste (e-waste), such as cathode-ray tube (CRT) monitors?

A) Sodium
B) Lead
C) Calcium
D) Magnesium

4. Which greenhouse gas is primarily produced by the anaerobic decomposition of organic waste in landfills?

A) Oxygen
B) Methane
C) Helium
D) Argon

5. What is the term for the toxic liquid that forms when liquid drains or 'leaches' through solid waste in a landfill?

A) Leachate
B) Sludge
C) Effluent
D) Condensate

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6. What process generates electricity or heat directly through the thermal treatment of non-recyclable waste materials?

A) Waste-to-Energy
B) Bioremediation
C) Phytoremediation
D) Open dumping

7. Which international treaty regulates the movement of hazardous waste between countries to prevent transfer from rich to developing nations?

A) Kyoto Protocol
B) Basel Convention
C) Paris Agreement
D) Montreal Protocol

8. Under the Resin Identification Code system, what plastic type is represented by number 1 (PET)?

A) Polyethylene Terephthalate
B) High-Density Polyethylene
C) Polyvinyl Chloride
D) Polystyrene

9. What term describes plastic pieces smaller than 5 millimeters that present a major pollution hazard to marine ecosystems?

A) Microplastics
B) Macroplastics
C) Nanotubes
D) Polyfilaments

10. What property allows a material to be broken down naturally by microorganisms into simple compounds like water and carbon dioxide?

A) Non-degradability
B) Biodegradability
C) Radioactive decay
D) Volatility

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