



Module 2: Waste-to-Resource Strategies in Agri-Food Systems

Lesson A Quiz: Beyond the Trash: The Five Pathways of Food Waste

QUIZ LINKS:

[Module 2 Lesson A Quiz - Responder Link](#)

Multiple Choice

Which of the following accurately describes organic waste?

- A. Only plastic and metal materials
- B. Non-recyclable glass and ceramics
- C. Biodegradable materials from plants or animals
- D. Synthetic chemicals and pesticides

What kind of emission is created when organic waste is left in landfills?

- A. Oxygen
- B. Nitrogen
- C. Carbon monoxide
- D. Methane

Managing organic waste sustainably can cut ____ emissions

- A. Greenhouse gas
- B. Noise pollution
- C. Light emissions
- D. Radioactive emissions

What percent of all food produced is never eaten?

- A. 40-50%
- B. 10-15%
- C. 25-30%
- D. 60-70%

What emissions does aerobic composting produce?

- A. CO₂
- B. Methane
- C. Nitrous oxide
- D. Sulfur dioxide

Which is the correct process of biochar pyrolysis?

- A. Burning wet biomass in high oxygen
- B. Heating dried biomass in low oxygen
- C. Freezing biomass to remove moisture
- D. Mixing biomass with chemicals at room temperature

Second valorization:

- A. Discards all waste after the first use
- B. Only focuses on packaging products
- C. Uses the by-product of first valorization to create valuable output
- D. Converts raw materials directly into food without waste

True or False

Methane from rotting food warms the planet >25× faster than CO₂.

Short Answer

Briefly describe the 3 benefits of biochar pyrolysis.

Answer should:

- Describe the benefits of biochar (Hint: carbon vault, soil super sponge, microbe mansion)
- Be 3 sentences minimum

Short Essay

From Lesson A, recall Path 3, the Bokashi Fermentation method. Describe 3 qualities of the bokashi method, and 1 drawback.

Requirements:

- Describe 3 qualities of the bokashi method
- Describe 1 drawback of the bokashi method
- Be 4-5 sentences long.