



Module 1 – Foundations of Sustainable Agri-Food Systems & Circular Economy

Lesson A Quiz

Why Food Systems Matter – Planetary Boundaries & SDGs

QUIZ LINKS:

[Module 1 Lesson A Quiz - Responder link](#)

Multiple choice

Select the correct definition of a sustainable food system:

- A. Producing as much food as possible using only synthetic fertilizers and pesticides.
- B. Focusing only on growing cash crops for export without considering local needs.
- C. Delivering nutritious food to sustain and strengthen environmental, economic, and social foundations
- D. Using machines to replace all human labor in food production regardless of environmental impact.

What are the 3 P's (the 3 principles of sustainable food systems)?

- A. People, planet, profit
- B. Power, performance, popularity
- C. Plants, pollution, packaging
- D. Production, processing, pricing

Which of the following is a planetary boundary of Earth that has already been crossed?

- A. Solar energy use
- B. Ocean salinity balance
- C. Mountain elevation levels
- D. Biosphere integrity

What happens if there is an increase in nitrogen and phosphorus on Earth?

- A. Increased crop growth with no side effects
- B. Dead zones and algae booms
- C. Stronger roots in all plants
- D. Cooler ocean temperatures

Why is the “Double the Food” claim not true?

- A. Because food can only be doubled every 50 years, not sooner.
- B. It ignores the fact that technology will make food grow faster automatically.
- C. Because doubling food supply will immediately reduce all hunger worldwide.
- D. It assumes there's no change in waste or diet, and does solve nutrition gaps

_____ forms a roadmap for ending poverty, protecting the planet, and ensuring prosperity and equality by 2030.

- A. Global trade agreements (GTAs)
- B. Universal health protocols (UHPs)
- C. Sustainable development goals (SDGs)
- D. Climate control policies (CCPs)

What is a key driver of overshoot in the planetary boundaries?

- A. Urban architecture
- B. Food systems
- C. Space exploration

D. Digital technology use

True or False

The number one cause of deforestation & habitat loss is due to food systems/agriculture

Short Answer

Briefly explain why cutting waste and shifting diets could be extremely beneficial changes.

Answer should:

- Explain what cutting waste and shifting diets means
- Explain how these changes could benefit the planet
- Be 2-3 sentences long

Short Essay

Define the 3 P's, and why they play a significant role in sustainable food systems.

Requirements:

- Clearly explain each of the 3 P's
- Explain the significance of the 3 P's in sustainable agriculture