

### Unit 3 Sustainable Ecosystems

**Day 1 :** Using the powerpoint presentation complete the following introductory worksheet

1. Ecology - The study of how organisms interact with their \_\_\_\_\_ and \_\_\_\_\_
2. Ecosystem - All of the \_\_\_\_\_ parts of a biological community and its physical environment within a specific area. It can be \_\_\_\_\_ or \_\_\_\_\_, and temporary or permanent.
3. Producer - Organisms capable of making their own food from: \_\_\_\_\_, \_\_\_\_\_ & \_\_\_\_\_
4. Consumer - Organisms that must eat \_\_\_\_\_ for food
5. Types of Consumers
  - a. Herbivore  
An organism that eats \_\_\_\_\_ as \_\_\_\_% or more of its diet
  - b. Carnivore  
An organism that eats \_\_\_\_\_ as \_\_\_\_% or more of its diet
  - c. Omnivore  
Organisms that eat a mixture of fresh \_\_\_\_\_ & \_\_\_\_\_ materials
- 6a. Detritus - \_\_\_\_\_ from plants and animals, including \_\_\_\_\_
- 6b. Decomposer -Organisms that consume \_\_\_\_\_
7. Pest - An organism that considered to be \_\_\_\_\_ in a particular situation. e.g.
8. Food Chain -Sequence of organisms, one \_\_\_\_\_ off another
9. Food Web - A pictorial representation of \_\_\_\_\_ among organisms in an ecosystem
10. Habitat - Where an organism lives in its \_\_\_\_\_
11. Niche - Everything an organism does to \_\_\_\_\_ & \_\_\_\_\_
12. Species - A group of organisms that \_\_\_\_\_ in the natural world and produce fertile \_\_\_\_\_
- 13a. Biotic factors The part of the environment that is \_\_\_\_\_ or was once \_\_\_\_\_  
eg,
- 13b. Abiotic factors - The part of the environment that was never \_\_\_\_\_  
eg.
14. Population - All of the members of one \_\_\_\_\_ living in an area
15. Community - All of the different \_\_\_\_\_ in an ecosystem
16. Ecotones - The \_\_\_\_\_ area between one ecosystem and another ecosystem