

Food Webs and Energy Transfer - Ecology part 2 LT 1**Trace the flow of energy through living systems.**

MTS: I can explain the difference between a food chain and food web.

ADV: I can describe the relationships between organisms when given a food web representing a particular ecosystem.

MAS: I can create a food web when given information regarding various organisms within an ecosystem.

Identify the pyramid of energy.

MTS: I can identify the location of each trophic level within the pyramid of energy.

ADV: I can show how the energy moves through the pyramid of energy.

MAS: I can explain what happens to the energy that is not passed on to the next trophic level in the pyramid of energy.

1. Food chains and food webs model the _____ of _____ and _____ through _____.
2. A **food chain** represents a simple _____ through _____ which energy and materials are _____ from one _____ to another in an ecosystem.
3. **What step is usually not included in a food chain?**
4. A **food web** is a diagram of _____ that includes _____ intersecting (*interseccion*) food chains.
5. **Why are food webs more representative of what actually happens in nature?**
6. The different _____ positions in a food chain or web are called _____.
7. The first _____ level consists of _____, the second of _____, the third of _____, and so on.

Food Webs and Energy Transfer

8. Why are humans not included in the first trophic level?

9. _____ is _____ up the food chain from one _____ level to the next. Only about _____ percent of the total _____ in _____ at the _____ trophic level is actually _____ to organisms at the _____ trophic level.

10. Looking at how much energy is transferred between each trophic level, how much energy is then used or lost as heat at each trophic level by the consumer organisms? _____

11. Why are there only four or five trophic levels in most ecosystems?

12. Because there is _____ energy at _____ trophic levels, there are usually _____ organisms as well. _____ tend to be _____ in size each trophic level.

13. _____ is the total _____ of _____ in a trophic level.

14. The _____ in dead organisms and _____ at all trophic levels are _____ by _____.

15. These organisms return much needed _____ to the _____ and use up most _____.

16. What must be continually added to the ecosystem by producers? _____