

Sec. 1.3 Energy flows through ecosystems

Learning Goal: Describe how energy flows through in an ecosystem.

Living things capture & release energy pg. 22-25

Producer = an organism that captures _____ & stores it in _____ as _____.

1. What process do all of these producers have in common? (Picture on pg. 23)

2. In an ecosystem what do producers do?

3. How does a producer use energy from the Sun?

Consumers = organisms that get their _____ by consuming other _____.

4. How does the energy inside the leaf get transferred to the bird? (picture on pg.24)

5. Why is the caterpillar identified as the primary consumer?

6. Why is the bird identified as the secondary consumer?

7. What feed on dead animals?

Decomposers _____ dead plants & animals _____ into _____.

8. List 2 examples of decomposers.

Models help explain feeding relationships - p26-28

Food chain: describes the _____ (flow of energy) of a _____ and a single chain of _____ in an ecosystem.

9. What are the links in a food chain or food web?

Food web is a _____ of the _____ relationship between several _____ and _____ in an ecosystem.

10. What is the difference between a food chain & a food web?

11. Why are there no arrows pointing away from the heron or the water snake? (diagram pg. 27)

Energy Pyramid=Describes the amount of _____ available at each _____ of the _____

12. What are the different tropic levels? (video)

13. As you move up the pyramid, how much energy is lost? (video)

14. Why is there less energy in the primary consumers than there is in the producers?