

Conclusion Questions:

Do organisms always stay in the same level? Explain your answer.

Yes and no. Producers will always remain producers. However, depending on what carnivore eats what carnivore (or omnivore), it could change whether they are just a carnivore or top carnivore.

Why is only 10% of the energy passed on through the trophic levels?

Organisms use much of their energy (90%) to carry out life functions. This energy is converted to heat and lost.


Name three activities that use the other 90% of the energy. Defend your answers.

- 1. Breathing
- 2. Moving/activity
- 3. Hunting/being a predator
- Eating
- Reproduction
- Grooming
- Keeping warm
- Growth + Development

Why does the energy flow form a pyramid that is smaller at the top? Explain your answer!

With reduced energy, fewer top carnivores can be sustained. There wouldn't be enough energy to keep too many of them alive.

Observations from the Teacher Demo:

Container Size	Observations	What it represents
		

In 2-3 GOOD sentences, explain why the length of food chains is limited. Why can't a food chain be 15 organisms long?

With the 10% rule, only 10% of energy is transferred from one level of the food chain/energy pyramid to another. Eventually, if there were too many chains/levels, the energy would be too little to sustain life.