- > This happens because
 - \circ $\;$ Not all of an organism is swallowed as a food source
 - Not all of the food swallowed can be absorbed and used in the body
 - Some organisms die without having being eaten by an organism from the next trophic level
 - There's considerable heat loss due to cell respiration at all trophic levels

Pyramid of energy

- A pyramid of energy is used to show how much and how fast energy flows from one trophic level to the next in a community
 - They take into account the rate of energy production, not just the quantity
 - Unit: kilojoules per square meter per year (kJ/m²/yr)
- > Energy is lost so each trophic level becomes smaller
- > Pyramids of numbers show the population size of each trophic level, not the energy

Food webs

- The number of organisms in the chain and the quantity of light av (1) ble will determine how long the chain is
- The biomass of a trophic level is an exit to of the mass of all the organisms within that level
- Some molecutes, and the food chain can't participate in the accumulating Boinces, because they'recost three jours
 - carbon dioxide, water, urea, feaces
- Sometimes it's necessary to describe a food web rather than a food chain, because many animals have complex dietary preferences