

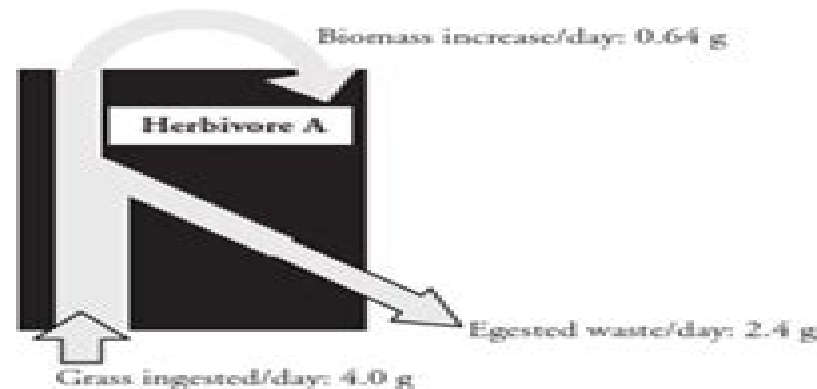
Energy Transfer in Living Organisms

How does energy move through an organism?

Why?

The **law of conservation of energy** states that **energy can be neither created nor destroyed**; it can **only be transferred to another form**. In **living things energy is transferred as organic matter (molecules of carbohydrate, fats, starch, etc.)**. But does an organism use all of the energy that is provided by the organic matter available? How is the law of conservation of energy applied to living organisms?

Model 1 – Food Conversion in a Herbivore



1. According to Model 1, how many grams of grass does herbivore A eat each day?
4.0 grams
2. Refer to Model 1.
 - a. How much did herbivore A grow from eating this grass?
0.64 g
 - b. What term is used to represent growth in Model 1?
biomass increase
3. What is meant by "egested waste" as it is used in Model 1?
The organism is ejecting feces and urine.
4. Is all of the mass of the ingested grass accounted for in the growth and waste of herbivore A? If not, how much is "missing"? Show a mathematical calculation to support your answer.
no, not all of the mass is accounted for in the growth and waste of herbivore A.
 $2.4 + 0.64 = 3.04$ $4 - 3.04 = .96$

Energy Transfer In Living Organisms Pogil

Norman W. H. Cheetham



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