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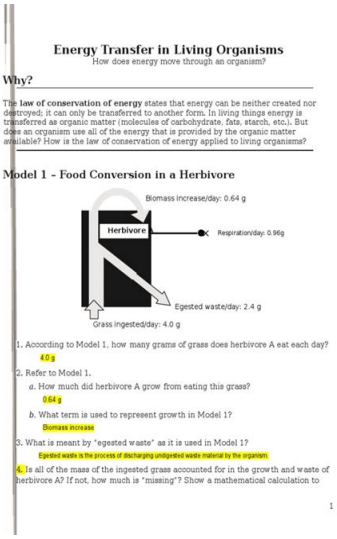

Energy Transfer in Living Organisms

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**

Biomass increase/day: 0.64 g

Herbivore

Respiration/day: 0.96g

Egested waste/day: 2.4 g

Grass ingested/day: 4.0 g

1. According to Model 1, how many grams of grass does herbivore A eat each day?
   4.0 g
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?
   Egested waste is the process of discharging undigested waste material by the organism
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

1

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