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Energy transfer in living organisms pdf answers sheet pdf

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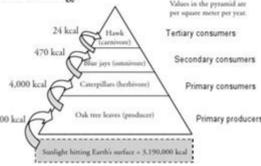
Ecological Pyramids

How does energy flow through an ecosystem?

Why?

Every organism in an ecosystem is either eating or being eaten. When cows eat grass, they obtain some of the energy that the grass transferred from the sunlight it absorbed. If cows could carry out photosynthesis, would they have access to more energy than they get as herbivores? Which organisms in an ecosystem require the most energy to sustain life?

Model 1 – Pyramid of Energy



1. A unit used to measure energy is the **kcal**.
 - a. What is the source of all energy in the pyramid in Model 1?
The source of energy is the sun.
 - b. How much energy does this source provide to a square meter of the Earth per year? (Be sure your answer includes units).
319000kcal per square meter per year
2. Label the pyramid levels in Model 1 with the following: primary producers, primary consumers, secondary consumers, and tertiary consumers.
3. The arrows in Model 1 represent the energy available to the next level of the pyramid.
 - a. What percentage of the source energy from Question 1a is absorbed by the oak leaves in Model 1?
The percentage of energy that is absorbed by the oak leaves is 0.799kcal.
 - b. By what process do the oak leaves harness this energy?
The oak leaves harness energy through photosynthesis.

Ecological Pyramids 1



Rhythm Rhyme Results

MULTICELLULAR ORGANISMS

QUIZ: TRUE, FALSE... WHY?

Determine whether the question is True or False and explain your answer. You may need to refer to our Resources or additional reading of your own choosing. (To be used with lyrics to RRH song 'Multicellular Organisms')

1. The human body is a 'simple' organism. T F
Why? _____
2. An organ is always composed of only one type of tissue. T F
Why? _____
3. Through located throughout the body, extracellular matrix (or matrices) are not connected in any way with other kinds of tissue. T F
Why? _____
4. Each body system always functions independently of the others. T F
Why? _____
5. The extracellular matrix often occupies the space outside of living tissue or cells. T F
Why? _____

Page 1 of 'Multicellular Organisms' by Rhythm, Rhyme, Results | www.educationalrap.com



Energy Flow Between Organisms

Plants depend on the **sun** for food. They use sunlight, water and carbon dioxide to make food to survive - to grow, flower and make seeds. Sunlight is collected on their **leaves**, which are the food-making part of a plant. Water is pulled up from the ground through their **roots** into their stems and leaves. Carbon dioxide is absorbed from the air through tiny holes under their leaves, called *stomata*. Plants use this sunlight, water and carbon dioxide to make sugars. The sugars are the food the plants use to grow – to make more plant matter. This is a chemical process called **photosynthesis**.

Animals need **food** in order to survive – to grow, heal, move, stay warm, and reproduce. They eat plants or other animals to get the energy they need. Animals break down their food into sugars for energy to move, proteins for growth and repair and fats to stay warm. It is important to note that because the sun drives the growth of plants, which provides the food for animals, animals depend on the sun for food too.

Some animals eat only plants. They are called **herbivores**. Examples of herbivores are deer, beavers, elephants, and kangaroos. Some animals eat only other animals. These meat-eaters are called **carnivores**. Examples of carnivores are tigers, polar bears, lions and seals. Some animals eat both meat and plants. They are called **omnivores**. Examples of omnivores are raccoons, monkeys, possums and humans. There are even living things that eat dead animals and plants. They are called **decomposers**. Examples of decomposers are insects, bacteria, and fungi. Decomposers help break down and recycle dead matter into the soil. Those **nutrients** help plants grow.

Everywhere on Earth, plants are making food, animals are eating it (and each other), and decomposers are recycling dead matter to enrich the soil where plants grow. These food webs drive all life on Earth.

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The metabolism of poikilotherms favors strategies such as sit-and-wait hunting over chasing prey for larger animals with high movement cost such as the rabbit. 5E nergy Transfer in Living Organisms POGIL™ Activities for High School Biology5 Extension Questions 21. Explain. Three ways energy taken is used; egestion, heat loss and respiration 11. Larger the organism the more energy it requires more food is ingested. Kilocalories 9. But does an organism use all of the energy that is provided by theorganic matter available? Herbivores A and B are eaten by carnivores. This could occur by burning the organic mat- ter or by an organism using the organic matter in cellular respiration. – Long term rentals in Portugal “I am an Irish citizen. But does an organism use all of the energy that is provided by the organic matter available? I am wondering if I should just dissolve the LLC? What term is used to represent growth in Model 1? As cells undergo cellular respiration, what products are produced, and how are they released from the body? Overseas Living Clubhouse Join our Overseas Living Clubhouse here. In living things energy is transferred as organic matter (molecules of carbohy- drate, fats, starch, etc.). No not all of the ingested grass is accounted for in the growth and waste of herbivore A. Why because the sum of the ingested and biomass increase per day is not equal to the total ingested. – Dissolving an LLC “Kathleen and Lief, I met you in Panama about five years ago and invested in the mango plantation you have written about. In Model 2, what are the three ways that the energy taken in by the herbivores is used? 0.192 kilocalories 15. a. Where would you suggest that we look for long-term rentals with a maximum rental expenditure of say 1,600 euro per month?” – Richard W. Submit it here. Newsletter Subscribe to our Newsletter here. Herbivore B is the most efficient food choice for the carnivore, because it has a higher biomass which results in more energy to the carnivore. For the same body weight, poikilotherms need only 5 to 10% of the energy of homeotherms hence the reason rabbit use more energy than the grasshopper 23. 7. In this way the energy is productively used in biological processes within the plant. According to Model 2, how much energy does herbivore A require for cellular respiration each day? 6. Which category of energy related to the organisms in Model 2 is directly available to the car- nivore who eats the herbivores? grass, respiration, biomass or waste? According to Model 1, herbivore A eats 4 g of grass per day. Show a mathematical calculation to support your answer. According to Model 1, how many grams of grass does herbivore A eat each day?4 grams of grass per day2. Use the information given in Model 1. Herbivore B, because of the amount of ingested grass 5 kilocalories is higher than herbivore A, biomass b. Is all of the mass of the ingested grass accounted for in the growth and waste of herbivores? Herbivore B = 4.25 kilocalories 12. Why? Draw an arrow in Model 1 to represent respiration and label it with the appropriate title and mass. This CO2 binds with water to form carbonic acid, helping to maintain the blood's pH. 69.8 % is potential energy of the grass is not efficiently used by herbivore A. Cellular respiration produces CO2 as a metabolic waste. We prefer to rent.” – Patricia T. Now I have gotten a notice about Nevis requiring a simplified tax return (STR). Therefore, the blood which is responsible to transport oxygen to the body cells and the return of the carbon dioxide in the lungs and through the process of Respiration Carbon dioxide is released into the environment. 0.8 kilocalories b. Using Model 2, how much potential energy does this represent? Because it can be processed by decomposers, it becomes fertilizer for the soil. What is meant by “egested waste” as it is used in Model 1?Egested waste means amount of discharge4. A’s herbivore body also use the food ingested for respiration. 15% is available for the carnivore Which herbivore is the more efficient food choice for the carnivore? 17. Which diagram in Model 2 could represent the grasshopper and which could represent the rabbit? Have you got a question? I created a Nevis LLC to hold the property but because of local (Hawaii) investment account restrictions, I had the proceeds deposited into my personal checking account. Is all of the mass of the ingested grass accounted for in the growth and waste of herbivore A? 0.192 kilocalories 16. Herbivore A 4 g per day 2. I am wondering what you have heard about this tax return? Which herbivore would you predict to be the larger animal? As they do not use their metabolisms to heat or cool themselves, total energy requirement over time is low. Does the total amount of energy output for each herbivore add up to the total amount of energy eaten by each herbivore? He answers questions regarding long-term rentals, investments for non-U.S. investors, medical insurance, tax returns, and more. Add labels to Model 2 to show this energy. In addition to growth and waste production, what else does herbivore A’s body do with the food it ingests? Diagram A could represent the grasshopper because of the amount of energy a grasshopper require is smaller than what a rabbit would need. 0.64 g b. 10. Food conservation in herbivore 3. The law of conservation of energy states that energy can be neither created nor destroyed; it can only be transferred to another form. In Poikilotherms animals their metabolism is variable and generally below that of homeothermic animals, sustained high-energy activities like powered flight in large animals in this case a rabbit or maintaining a large brain is generally beyond poikilotherms animals. 14. 22. Model 1 – Food Conversion in an Herbivore Respiration/ day: 0.96g Herbi vore A Biomass increase/day: 0.64 g Egested waste/day: 2.4 g 1E nergy Transfer in Living Organisms POGIL™ Activities for High School Biology1 Grass ingested/day: 4.0 g 1. Excreted waste is not wasted energy since energy cannot be destroyed. Refer to Model 1 a. How much did herbivore A grow from eating this grass?64 grams/dayb. We are active older folks that bike, hike, canoe, explore, and love adventure. Refer to Model 1. What percentage of the potential energy of the grass is not efficiently used by herbivore A? Will you talk about investments suited for European investors? Natalia Cocom 27/7/16 Energy Transfer in Living Organisms How does energy move through an organism? What accounts for the differences noted in Question 12? How is the law of conservation of energy applied to living organisms? Energy lost as either heat to the environment or egested as waste is not considered to be an efficient use by the organism. 4E nergy Transfer in Living Organisms POGIL™ Activities for High School Biology4 19. 2E nergy Transfer in Living Organisms POGIL™ Activities for High School Biology2 Model 2 – Energy Efficiency in Two Organisms Respiration/day: 0.192 kilocalories Heat loss/day: 0.228kilocalories Biomass increase/ day : 0.05 kilocalories Herbi vore A Respiration/day: 1.6 kilocalories Heat loss/day: 1.4 kilocalories Biomass increase/ day : 0.75 kilocalories Herbi vore B Egested waste/day: 0.33 kilocalories Grassingested/day: 0.8 kilocalories Egested waste/day: 1.25 kilocalories Grassingested/day: 5 kilocalories 8. Is the egested waste from an organism wasted energy? It is accounted on the organism’s biomass b. Name ___Vaishnavi Gogineni___ Block ___3 Ecology Unit- Ch 54 & 55.Part 1: Energy Transfer in Living OrganismsHow does energy move through an organism?The law of conservation of energy states that energy can be neither created nor destroyed; it can only be transferred to another form. – Medical Insurance in the Algarve “What medical insurance is applicable in the Algarve?” – David D. 53 % is potential energy of the grass is not efficiently used by herbivore A. Herbivore A = 0.75 kilocalories b. Read This! Biologists often refer to organic matter by the potential energy that is released when the substance under- goes a chemical change to make carbon dioxide and water. If not, how much is “missing”? How much did herbivore A grow from eating this grass? Egested waste- refers to unwanted (undigested) materials commonly known as excretion (waste products) 4. 6.25% is available for the carnivore c. – Where to rent in Ireland “We would like to spend some time, maybe one to three months, in Ireland. What is the energy value of the grass eaten by herbivore B each day? Both legally and practically”. What percentage of the potential energy of the grass is not efficiently used by herbivore B? Insects are poikilothermic (“cold-blooded”), while mammals are homeothermic (“warm-blooded”). What is meant by “egested waste” as it is used in Model 1? What is the energy value of the grass eaten by herbivore A each day? – Marco B. Where is the best place to start? For each herbivore calculate the total energy output. 6E nergy Transfer in Living Organisms POGIL™ Activities for High School Biology6 Lief takes the wheel in this episode of the Live and Invest Overseas Podcast. Keep in mind that your comment or question could be answered in a future podcast. Also, your first name, last name initial, and country of residence as submitted will be mentioned in the podcast. What percentage of the original “grass energy” is available to the carnivore if it eats herbivore B? The questions addressed in this podcast are: – Solutions for non-U.S. investors “I was wondering if you will present any solutions for non-U.S. investors at the conference in September? We presently reside in Florida, but we would like to move to Portugal on a long-term basis. Since too much CO2 would lower the blood’s pH too much, the removal of the excess CO2 must be accomplished on an ongoing basis. What do you think?” – Gene S. Using this information, explain why rabbits use more of their energy for respiration compared to grasshoppers. In living things energy is transferred as organic matter (molecules ofcarbohy- drate, fats, starch, etc.). 2.4 + 0.64 = 3.04 Missing: total ingested - biomass increase per day 4.0 - 3.04=0.96 g 5. How is the law of conservation of energy applied to living organisms?Model 1 – Food Conversion in an HerbivoreBiomass increase/day: 0.64 gEgested waste/day: 2.4 gGrass ingested/day: 4.0g1. 5 kilocalories c. What term is used to represent growth in Model 1?Biomass increase3. What percentage of the original “grass energy” is available to the carnivore if it eats herbivore A? 20. 3E nergy Transfer in Living Organisms POGIL™ Activities for High School Biology3 No 13. Diagram B could represent the rabbit because the amount of food ingested is larger than in diagram A. The plants can absorb the nutrients from the soil, therefore “reusing” the energy. According to Model 1, how many grams of grass does herbivore A eat each day? My wife is an American citizen. If not, describe how this energy (organic matter) might be used in a useful way. Refer to the energy value of the ingested grass in Model 2. What unit of energy is used in Model 2?

23/11/2021 · Living organisms are made up of cells and must exhibit eight different characteristics established by biologists. Learn to define the eight characteristics, or traits and qualities, of life, from ... Ask our expert tutors for a FREE evaluation, email filled answer sheet to contact@etutorworld.com Grab the eTutorWorld Advantage! Improve your Math and Sciencegrades and test scores with expert personal online tutoring. eTutorWorld offers affordable one-on-one live tutoring over the web for Grades 5-12 and AP and community college courses, ... Students will be in awe of the beauty, elegance, and size of one of our most popular and unique saturniid moths, the luna moth. Easy to care for,

the moth is light green with an average wingspan of 4 to 5-1/2. No feeding. Producers: organisms that can make their own food. With ... Producers: organisms that can make their own food. Plants take energy from the sun, carbon dioxide from the air, and water from the soil to create food within them. This process is known as photosynthesis. Consumers: organisms that cannot make their own food. These include animals and humans. There are three groups of ... 24/08/2021 · This transfer of thermal energy from the stove to the pot and to the water is referred to as heat. ... The Transformation of Energy in Living Organisms 6:27 Go ... One stop for all your classical mechanics science and energy education needs. Exciting activities that ... It's all about the interactions among land, water, living organisms, the atmosphere, and beyond. Mine activities ... Damselfly and Dragonfly Nymphs Care Sheet Document Living Materials Care and Handling Guide For Organisms Used in STC ... Energy and matter: Flows, cycles, and conservation. Tracking fluxes of energy and matter into, out of, and within systems helps one understand the systems' possibilities and limitations. 6. Structure and function. The way in which an object or living thing is shaped and its substructure determine many of its properties and functions. 7. There are many answers to this question. Here are some examples: Liquid water is non-magnetic and non-conductive. It is used for drinking, washing dishes and watering plants. Water in the gas phase is also non-magnetic and non-conductive. It has a much lower density than liquid water. It is used for powering steam engines and some power plants.

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