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13.5 Cycling of Matter

Energy flows from the sun to the earth and back out again into space creating an open system for earth

Matter on the other hand on earth is a closed system?

Why?

Hint: Law of Conservation of matter

Give an example or two!

Oxygen

Carbon

Water

Nitrogen



Humans in the Biosphere

Complete the crossword below

Created on [Star Trek: Deep Space Nine](#) and [Crosswords](#) © 2016

Tools

PRAIRIE DATA

Choose organism

Grass Prairie dogs Ferrets Foxes

Year: 2

Bar graph Line graph

2,226 tons grass 11,880 prairie dogs 49 ferrets 8 foxes

Advance year Reset

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Quiz & Worksheet - Ecological Producers, Consumers & Decomposers

<http://study.com/academy/practice/quiz-worksheet-ecological-producers-consumers-decomposers.html>

1. Why are decomposers important in the circle of life?

decomposers return nutrients to the soil to be used by producers

decomposers break down dead animals

decomposers break down dead plant material

all of the answers are correct

2. What is a secondary consumer?

none of the answers are correct

something that eats a primary consumer

a plant eater

a decomposer

3. Which type of animal is a plant eater?

all answers are correct

heterotroph

primary consumer

herbivore

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Most is located in rocks- released in weathering. Which organism is an autotroph? Thank you very much for your cooperation. Which organism is a 3rd order heterotroph? ECOSYSTEMS • Ecosystem • Organisms living there are determined by:Ecosystem Boundaries • Boundaries are provided by the biotic and abiotic components of the ecosystem. Well-defined boundaries. Which trophic level does the organism of #4 belong to? Very small Administrative criteriaEnergy Flow • Living organisms are temporary storage units for useful energy. In order to continue enjoying our site, we ask that you confirm your identity as a human. • Calculate the energy going to hawk at 8% Hawk Fox Rabbits Grass100,000 kcalHydrologic Cycle Precipitation Runoff Percolation Evaporation Transpiration Condensation Human Impacts?Carbon Cycle Human Impacts? Which organism belongs to more than 1 trophic level?Trophic Levels • Feeding level for each organism:Producers(s)? 1st Trophic level 2nd Trophic level 3rd Trophic level 4th Trophic level Herbivore(s)? 12% Ecological efficiency • Calculate the energy going to the fox at 14% ecological energy. • What was the control? • What was the result?Resistance versus Resilience • Resistance • Definition: • High resistance: • Resilience • Definition: • High resilience • Depends on:Intermediate Disturbance Hypothesis • Not all disturbance is bad. Omnivore(s)? How much energy moves to the second trophic level - primary consumers - rabbits? • Herbivores • Carnivores • Omnivores • Decomposers • Detritivores • ScavengersTwo Secrets of Survival: Energy Flow and Matter Recycle • Survival depends on flow of energy and matter (biomass) through the body. • Biomass: Figure 3-14ENERGY FLOW IN ECOSYSTEMS • Food chainFood Chains and Food Webs • Food webHow many food chains are in this food web? • Helps organisms use oxygen. Which organisms belong to more than one food chain? • Plants - Photosynthesis • 1% • 100% • ChemosynthesisGetting Energy for Survival • All organisms (including plants) break down carbohydrates to obtain the energy they need. Why? • Natural source - volcanoes • Anthropogenic source • Burning of fossil fuels • Mining of metals such as copper • Acid precipitation • SO2 + H2O H2SO4 (sulfuric acid)Sulfur Cycle Weathering Volcanic eruptions Mining of metals Fossil fuel combustion Acid rainDisturbances in Ecosystems • Disturbance • Natural disturbances • Anthropogenic disturbances • Ecological Study of DisturbancesHubbard BrookSmall Scale Study • What is the characteristic of this watershed that helps in measurement of the water cycle? • What solution seems to be working in Haiti now? SNAKE BIRD FROG INSECT PLANT Which organism is an omnivore? • Least productive ecosystems?Biodiversity Loss and Species Extinction • HIPPCO • Energy Transfer • Terms to know • Biomass • Standing crop • Productivity • Compare slow growing forest to algae in energy transferEcological Efficiency • Definition • 2nd law of thermodynamics • Plants/producers 100% • Primary consumers: • Secondary consumers: • Tertiary consumers: • 10% average; range 5 - 20%Do The Math • Start with the first trophic level grass at 100,000 kcal. • Cellular Respiration:Comparison of photosynthesis to cellular respiration.Consumers/Heterotrophs • Get their food by eating or breaking down all or parts of other organisms or their remains. Identify all the organisms in one food chain.Ecosystem Productivity • The amount of energy available in an ecosystem determines how much life the ecosystem can support. • One organism can be used by another as a source of energy. Which organism is a herbivore? Ecosystem Services • Intrinsic value • Instrumental value • GPP • NPP • NPP = GPP - respiration by producersNPP of Ecosystems • Highest where: • Most productive ecosystems? Chapter 3 Ecosystem EcologyCase Study Reversing the Deforestation of Haiti • Which Haiti resource has been degraded? Photosynthesis Respiration Exchange Sedimentation Burial Extraction CombustionNitrogen Cycle Decomposers Denitrifying bacteria Nitrogen fixing bacteria Nitrogen fixation Assimilation Ammonification Nitrification Denitrification Nitrifying bacteria Human Impacts?Phosphorus Cycle Weathering Phosphate mining/fertilizer Decomposition Excretions Marine sediments Geologic forcesHuman Impact on Phosphorus Cycle • Problems arise when there is excess nitrogen: • 2 Major sources • Agriculture • Fertilizer runoff • Households • Phosphate in laundry detergents - banned in 1994 • Phosphate in dishwasher detergents - banned in 2010 • Algae bloomFacts about Sulfur • Component of proteins. • In the atmosphere as a gas. • Do the Math: Raising Mangoes Page 78. • What did the U.S. Agency for International Development do to help Haiti? What were the results? • What two disturbances did the scientists measure? • Energy cannot recycle; so there is a continuous requirement for new energy.

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