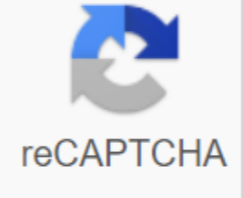




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Chapter 4 ecosystems and communities vocab

Environment in which species Group of organisms of the same species living in the same area at the same time Group of population groups living and interacting in the same area Community and its abiotic environment Study of the relationship between living organisms and organisms and their environment The organism that synthesizes organic molecules of simple inorganic substances (e.g. CO₂ and nitrates) Gets organic molecules from other organisms Organism containing other living or recently killed organic matter Organisms rich in an inorganic substance Organisms that live or eat a living organic matter, transmit digestive enzymes to it and absorb digestive products What do food chains look like? Food chains show linear feeding relationships between species What do you arrows represent in food chains? Arrows represent the transfer of energy when another organism eats one organism What is the first organism in a food chain series and what follows? The first organism in the series is the producer, followed by the consumer Draw three food chains, including the penguin and ocean Food web shows how food chains have been combined into more complex relationships in the community Food webs, which can keep more than one level of trophic more than one producer and consumer are in several trophic tasks Trophic level refers to its position in the food chain What is trophic level one What is trophic level two What is trophic level three What is trophic level four Build a food web containing up to 10 organisms Why light is beneficial to almost all communities All green plants some bacteria = phototrophy they use light as an energy source to synthesize organic molecules What's the light in the original source? How energy gets to most communities Energy enters most communities as light, absorbed and converted into chemical by autotrophs such as plants and converted into energy by photosynthesis When energy enters most communities as light, how does energy get past the main consumers? Energy then shifts to the primary consumer herbivore as they eat the plant and then get past successive consumer carnivores as they eat in turn How much energy is transferred from one trophic level to another and where does the rest go? Only about 10% of energy is transferred from one trophic level to another the rest is lost How much energy is lost from the trophic level to the trophic level