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Energy Transfer

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|  |  |  |  |  |  |  | 9 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **Across**  **2.** the type of succession that occurs on a surface where no ecosystem existed before; such as rocks or sand dunes  **3.** the process of breaking down food to yield energy  **10.** A diagram that shows the feeding relationships between organisms in an organism  **13.** Breaks down dead organisms in an ecosystem and returns nutrients to the soil, water, and air  **14.** Consumers that only eat other consumers  **16.** Gets energy by eating other organism  **17.** a species the colonizes an uninhabited area and that starts an ecological cycle in which many other species become established  **18.** The movement of phosphorus from the environment to organisms and then back to the environment  **19.** Consumers that only eat producers  **20.** The only organisms that can fix atmospheric nitrogen into chemical compounds are a a few species of bacteria | **Down**  **1.** a gradual process of change and replacement of some or all of the species in an community  **4.** the process in which nitrogen circulates among the air, soil, water, plants, animals in an ecosystem  **5.** the more common type of succession, occurs on a surface where an ecosystem has previously existed  **6.** Energy from the sun enters an ecosystem when a plant uses sunlight to make sugar molecules  **7.** a final, stable community in equilibrium with the environment  **8.** a sequence in which energy is transferred from one organism to the next as each organism eats another organism  **9.** One of the steps in a food chain or food pyramid  **11.** A process by which carbon is cycled between the atmosphere, land, water, organism  **12.** consumers that eat both plants and animals  **15.** an organism that makes its own food |

   Photosynthesis        Producer       Consumer       Herbivores       Carnivores        omnivores        Decomposers       Cellular Respiration        Food Chain       Food web       Trophic level        Carbon cycle       Nitrogen-fixing bacteria        Nitrogen cycle       Phosphorus Cycle       Ecological Succession       Primary Succession       Secondary Succession       Pioneer Species       Climax Community