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Ecology, Energy Flow, Human Impact

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| **Across****3.** an association of populations of two or more different species occupying the same area in a particular time.**7.** the branch of biology that deals with the relations of organisms to one another and to their physical surroundings.**9.** a group of animals that derive energy and nutrients from a variety of food sources, such as plants and animals, as well as fungi, algae and bacteria.**11.**  system of interlocking and interdependent food chains**15.** a plant, fungus, or animal species that is not native to a specific location**16.** an animal that gets its energy from eating plants, and only plants**17.**  the accumulation of substances, such as pesticides, or other chemicals in an organism**18.** the state of the atmosphere at a place and time as regards heat, dryness, sunshine, wind, rain, etc.**19.** he act or result of cutting down or burning all the trees in an area, reducing the number of organisms able to carry out photosynthesis**20.** the mass of living biological organisms in a given area or ecosystem at a given time**21.** organisms of an ecological food chain which receive energy by consuming other organisms, also known as heterotrophs**22.** the ecological role of an organism in a community especially in regard to food consumption**23.** a biological community of interacting organisms and their physical environment.**25.** any class of organisms that occupy the same position in a food chain, as primary consumers, secondary consumers, and tertiary consumers. Only 10% of the energy is transferred from each level.**26.** the natural home or environment of an animal, plant, or other organism.**27.**  A process in which organisms, with the aid of chlorophyll (green plant enzyme), convert carbon dioxide and inorganic substances into oxygen and additional plant material, using sunlight for energy. | **Down****1.**  a group of individuals of the same species inhabiting the same area.**2.** organisms that break down dead or decaying organisms, and in doing so, they carry out the natural process of decomposition**4.** organisms that can make their own energy through biochemical processes, also known as autotrophs**5.** the increasing concentration of a substance, such as a toxic chemical, in the tissues of organisms at successively higher levels in a food chain**6.** Destruction of the upper atmospheric layer of ozone gas, caused by substances formed from breakdown of ozone depleting substances, known as chlorofluorocarbons, or CFCs**8.**  A term used to describe the heating of the atmosphere owing to the presence of carbon dioxide and other gases.**10.** rainfall made sufficiently acidic by atmospheric pollution that it causes environmental harm, typically to forests and lakes**12.** a group of living organisms consisting of similar individuals capable of exchanging genes or interbreeding.**13.** A succession of organisms in a community that are linked to each other through the transfer of energy and nutrients, beginning with an autotrophic organism such as a plant and continuing with each organism being consumed by one higher in the chain**14.** an organism that derives its energy and nutrient requirements from a diet consisting mainly or exclusively of animal tissue**24.** the weather conditions prevailing in an area in general or over a long period. |