|  |  |
| --- | --- |
| Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

Ecology, Energy Flow, Human Impact

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2 |  |  |  |  |  |  |
|  |  | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 4 |  | 5 |  |  |  |  |  |  | 6 |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 8 |  |  |  |  |  | 9 |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  | 10 |  |  |  |  |  |  |  |  |  |  | 11 |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  | 12 |  |  |  | 13 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | 14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 15 |  |  |  |  |  |  |  |  |  |  |  |  |  | 16 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | 17 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 18 |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 19 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 20 |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | 21 |  |  |  |  |  |  |  |  |  | 22 |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | 23 | 24 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | 25 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | 26 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 27 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

|  |  |
| --- | --- |
| **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. |