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| Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Date: \_\_\_\_\_\_\_\_\_ | Period: \_\_\_\_\_\_\_ |

Energy Transfer

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  | 1E |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  C |  |  |  |  | 2P |  R |  I |  M |  A |  R |  Y |  S |  U |  C |  C |  E |  S |  S |  I |  O |  N |  |  |  |  |  |
|  |  |  |  O |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 3C |  E |  L |  L |  U |  L |  A |  R |  R |  E |  S |  P |  I |  R |  A |  T |  I |  O |  N |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  O |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  G |  |  |  |  |  |  |  |  |  |  | 4N |  |  |  | 5S |  |  |  |  |  |  | 6P |  |  |  |  |
|  |  |  |  I |  | 7C |  |  |  |  |  |  | 8F |  |  I |  |  |  |  E |  |  |  |  |  |  |  H |  |  |  |  |
|  |  |  |  C |  |  L |  | 9T |  |  |  |  |  O |  |  T |  |  |  |  C |  |  |  |  |  |  |  O |  |  |  |  |
|  |  |  |  A |  |  I |  |  R |  |  |  |  |  O |  |  R |  | 10F |  O |  O |  D |  W |  E |  B |  |  |  T |  | 11C |  |  |
|  |  |  |  L |  |  M |  |  O |  | 12O |  |  |  D |  |  O |  |  |  |  N |  |  |  |  |  |  |  O |  |  A |  |  |
|  |  |  |  S |  |  A |  |  P |  |  M |  |  |  C |  |  G |  |  |  | 13D |  E |  C |  O |  M |  P |  O |  S |  E |  R |  S |  |
|  |  |  |  U |  |  X |  |  H |  |  N |  |  |  H |  |  E |  |  |  |  A |  |  |  |  |  |  |  Y |  |  B |  |  |
|  |  |  |  C |  |  C |  |  I |  |  I |  | 14C |  A |  R |  N |  I |  V |  O |  R |  E |  S |  |  |  |  |  N |  |  O |  |  |
|  |  |  |  C |  |  O |  |  C |  |  V |  |  |  I |  |  C |  |  |  |  Y |  |  |  |  |  |  |  T |  |  N |  |  |
|  |  |  |  E |  |  M |  |  L |  |  O |  |  |  N |  |  Y |  |  |  |  S |  |  | 15P |  |  |  |  H |  |  C |  |  |
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|  |  | 17P |  I |  O |  N |  E |  E |  R |  S |  P |  E |  C |  I |  E |  S |  |  |  C |  |  |  D |  |  |  |  I |  |  L |  |  |
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|  |  |  |  N |  |  T |  |  |  | 18P |  H |  O |  S |  P |  H |  O |  R |  U |  S |  C |  Y |  C |  L |  E |  |  |  |  |  |  |
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|  |  |  |  |  |  | 20N |  I |  T |  R |  O |  G |  E |  N |  F |  I |  X |  I |  N |  G |  B |  A |  C |  T |  E |  R |  I |  A |  |  |

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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