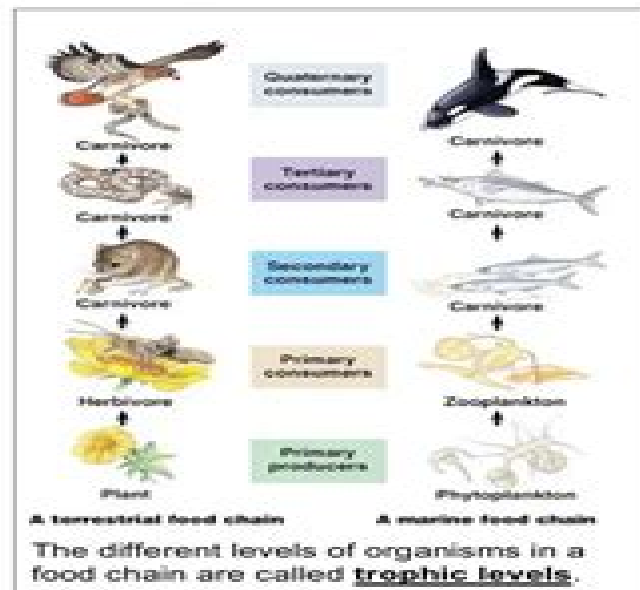


LAB _____ FOOD CHAINS AND ENERGY IN ECOSYSTEMS

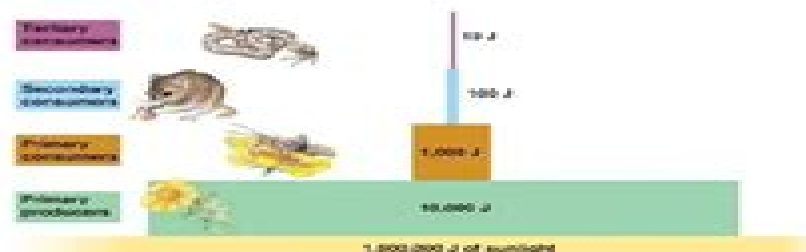
All organisms need an input of energy and nutrients to live. For animals, both of these come from the food they eat. For plants the source of energy is the sun — they produce their own food through photosynthesis — and their source of nutrients is the soil.

The feeding relationships between organisms forms a food chain. **Producers** (plants, or **autotrophs**) capture the sun's energy and absorb nutrients from the soil to make their own food. **Primary consumers** (animals, **heterotrophs**, or **herbivores**) eat the plants and capture their energy and nutrients. **Secondary consumers** (animals, **heterotrophs**, or **carnivores**) eat the herbivores and capture their energy and nutrients. Third and fourth level consumers continue this chain by eating the lower level carnivores. Then finally **decomposers** breakdown waste and dead organisms recycling the nutrients back into the ecosystem, so they are available for another generation of plants and animals.

When a consumer eats another organism, only a small fraction of the energy taken in is used for growth. About 50% of the food is not digested or absorbed and is passed out as waste. About 40% of the energy of the food is lost from as heat or used by the organism for cellular respiration — making energy for daily life. Only about 10% of the food eaten is used for growth and is therefore available as energy to the next **trophic level** in the food chain. This produces a pyramid of energy and a pyramid of numbers in an ecosystem. The greatest amount of energy and the largest population is at the base of the pyramid with the producers. The least amount of energy and the smallest population is at the top of the pyramid in the top level consumers.



Only about 10% of the energy from the food eaten is used for growth.



Because of the loss of energy moving up the food chain, each trophic level can support fewer organisms.

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The Top Books of the Year Regents Biology Lab Food Chains And Energy In Ecosystems Answers The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have captivated audiences this year. Regents Biology Lab Food Chains And Energy In Ecosystems Answers : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Regents Biology Lab Food Chains And Energy In Ecosystems Answers : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Regents Biology Lab Food Chains And Energy In Ecosystems Answers : Delia Owens' "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and gripping novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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