

Biology EOC Study Guide: Part 1, Ecology

Washington State Life Sciences Content Standards and Student Performance Expectations

Content Standard "A" (9-11 LS2A)	Student Performance Expectation
Students know that: Matter cycles and energy flows through living and nonliving components in ecosystems. The transfer of matter and energy is important for maintaining the health and sustainability of an ecosystem.	Students are expected to: • Explain how plants and animals cycle carbon and nitrogen within an ecosystem. • Explain how matter cycles and energy flows in ecosystems, resulting in the formation of differing chemical compounds and heat.
In other words: • When studying ecosystems, we look at two different things: (1) The flow of energy and (2) the cycling of nutrients. Because nutrients are made of solid atoms and molecules, they never disappear from the face of the Earth. They just get rearranged into many different molecules. That is, they are constantly being recycled. Thus we say that "nutrients cycle." Energy, on the other hand, is not a particle, although it is stored in the chemical bonds between atoms. But as atoms get rearranged, a little bit of energy is always given off as heat. Eventually energy that has come into a system will all dissipate as heat. Thus, energy (e.g., from the sun) has to constantly come into the system. Thus we say that "energy flows." Important notes: • All organisms expend energy (e.g., for growth, reproduction, metabolic processes). - Organisms cannot create their own energy. Most use energy from the sun. Some use chemical energy stored in inorganic compounds. - o Autotrophs = primary producers = the first producers of energy-rich compounds that are later used by other organisms. - o Only autotrophs (algae, certain bacteria, and plants) can capture energy from the sun or chemical compounds and use it to assemble inorganic compounds into complex organic molecules. - Energy From the Sun - o Photosynthesis uses light energy to convert carbon dioxide and water into oxygen and energy-rich carbohydrates such as sugars and starches. Photosynthesis takes CO_2 from the air and adds O_2. Accomplished by plants on land, algae in freshwaters, and cyanobacteria in oceans. - Energy from inorganic molecules - o In the process called chemosynthesis, bacteria harness chemical energy from inorganic molecules (such as hydrogen sulfide) to produce carbohydrates. Often live in extreme environments = deep ocean vents, hot springs, etc. • Food Chains and Food Webs: How does energy flow through ecosystems? - Energy flows through an ecosystem in a one-way stream, from primary producers to various consumers. - Food Chains = a series of steps in which organisms transfer energy by eating and being eaten. - Food Webs = network of feeding interactions. - o Food chains are found within food webs - o Decomposers convert dead material to detritus, which is eaten by detritivores (e.g., worms). - o Decomposition releases nutrients that primary	
 Food Chain  Food Web	

Biology Eoc Study Guide

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Biology Eoc Study Guide:

The Top Books of the Year Biology Eoc Study Guide 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 bestselling books, exploring the engaging narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This captivating 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. Discover the Magic : Delia Owens' "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling 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 masterful and thrilling novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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