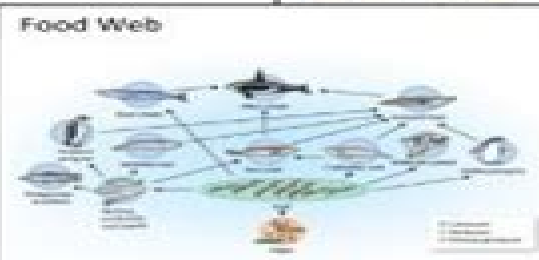


Biology EOC Study Guide: Part 1, Ecology

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 chains  Food Web	

Washington State Eoc Biology Study Guide

Michael Rajnik



Washington State Eoc Biology Study Guide:

Resources in Education ,2000-04 *Advances in Seed Biology* Paolo A. Sabelli,Brian A. Larkins,2015-11-11 The seed plays a fundamental role in plant reproduction as well as a key source of energy nutrients and raw materials for developing and sustaining humanity With an expanding and generally more affluent world population projected to reach nine billion by mid century coupled to diminishing availability of inputs agriculture is facing increasing challenges to ensure sufficient grain production A deeper understanding of seed development evolution and physiology will undoubtedly provide a fundamental basis to improve plant breeding practices and ultimately crop yields Recent advances in genetic biochemical molecular and physiological research mostly brought about by the deployment of novel high throughput and high sensitivity technologies have begun to uncover and connect the molecular networks that control and integrate different aspects of seed development and help determine the economic value of grain crops with unprecedented details The objective of this e book is to provide a compilation of original research articles reviews hypotheses and perspectives that have recently been published in *Frontiers in Plant Science Plant Evolution and Development* as part of the Research Topic entitled *Advances in Seed Biology* Editing this Research Topic has been an extremely interesting educational and rewarding experience and we sincerely thank all authors who contributed their expertise and in depth knowledge of the different topics discussed We hope that the information presented here will help to establish the state of the art of this field and will convey how exciting and important studying seeds is and hopefully will stimulate a new crop of scientists devoted to investigating the biology of seeds *Germ Gambits* Amy Smithson,2011-07-18 Arms control and nonproliferation treaties are among the fingers in the dike preventing the unthinkable nuclear biological and chemical catastrophe For decades the ability to ascertain whether states are hiding germ weapons programs has been nonexistent because the 1975 bioweapons ban has no inspection measures Yet in 1995 a small United Nations inspection corps pulled off a spectacular verification feat in the face of concerted resistance from Iraq s Saddam Hussein and popular skepticism that it was even possible to conduct effective biological inspections Working from sketchy intelligence and hampered by the Iraqis extensive concealment and deception measures the inspectors busted open Iraq s cover stories and wrested a confession of biowarfare agent production from Baghdad This rigorously researched book tells that compelling story through the firsthand accounts of the inspectors who with a combination of intrepidity ingenuity and a couple of lucky breaks took the lid off Iraq s bioweapons program and pulled off an improbable victory for peace and international security The book concludes by drawing lessons from this experience that should be applied to help arrest future bioweapons programs by placing the Iraq bioweapons saga in the context of other manmade biological risks and by making recommendations to reduce those risks While written as an engaging analytical historical narrative that explains what the biological inspectors knew when and how they knew it and how they outmaneuvered the Iraqis this book s real contributions are the inspectors blueprint to get it right with regard to the verification challenges associated with the

bioweapons ban and the author's roadmap to address the overall biological threats facing the world today Energy
Research Abstracts ,1982 **Selected Water Resources Abstracts** ,1989-07 **Resources in Education** ,1976 **Arts**
& Humanities Citation Index ,1997 **Selected Water Resources Abstracts** ,1989 **Ulrich's International**
Periodicals Directory ,1990 **Multiple Species Inventory and Monitoring Technical Guide** Patricia N. Manley,2006
Monitoring protocols are presented for landbirds raptors small medium and large mammals bats terrestrial amphibians and
reptiles vertebrates in aquatic ecosystems plant species and habitats

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