

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	

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