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:	Students are expected to:
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.	 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
matrients. 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.
 - Autotrophs = primary producers = the first producers of energy-rich compounds that are later used by other organisms.
 - 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
 - Photosynthesis uses light energy to convert carbon dioxide and water into oxygen and energy-rich carbohydrates such as sugars and starches. Photosynthesis takes CO₂ from the air and adds O₂. 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.
 - Food chains are found within food webs.
 - Decomposers convert dead material to detritus, which is eaten by detritivores (e.g., worms).
 - Decomposition releases nutrients that primary





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L Reisser

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Florida Biology 1 End-of-Course Assessment Book + Online John Allen, 2013-03-26 Taking the Florida Biology 1 End of Course Exam Then You Need REA's Florida Biology 1 End of Course Test Prep with Online Practice Exams If you re facing the Florida Biology 1 End of Course exam and are concerned about your score don t worry REA s test prep will help you sharpen your skills and pass this high stakes exam REA s Florida Biology 1 End of Course test prep provides all the up to date instruction and practice you need to improve your skills The comprehensive review features easy to follow examples that reinforce the concepts tested on the Biology 1 End of Course exam Our test prep is ideal for classroom group or individual study Tutorials and targeted drills increase your comprehension Color icons and graphics throughout the book highlight important concepts and tasks REA s test taking tips and strategies give you the confidence you need on test day so you can pass the exam and graduate The book contains two full length practice exams that let you test your knowledge while reinforcing what you ve learned The same two practice tests are also available online at REA's Study Center The online tests give you the additional benefits of instant scoring timed testing conditions and diagnostic score reports that pinpoint your strengths and weaknesses Each practice test comes complete with detailed explanations of answers so you can focus on areas where you need extra review This book is a must for any Florida student preparing for the Biology 1 End of Course exam About the Exam The Florida Biology I End of Course exam measures middle and high school student achievement of the Next Generation Sunshine State Standards All public school students are required to pass the exam in order to receive a high school diploma Pamphlet - Dept. of the Army United States. Department of the Army, 1951 Meeting the Challenges to Measurement in an Era of Accountability Henry Braun, 2016-01-29 Under pressure and support from the federal government states have increasingly turned to indicators based on student test scores to evaluate teachers and schools as well as students themselves The focus thus far has been on test scores in those subject areas where there is a sequence of consecutive tests such as in mathematics or English language arts with a focus on grades 4 8 Teachers in these subject areas however constitute less than thirty percent of the teacher workforce in a district Comparatively little has been written about the measurement of achievement in the other grades and subjects This volume seeks to remedy this imbalance by focusing on the assessment of student achievement in a broad range of grade levels and subject areas with particular attention to their use in the evaluation of teachers and schools in all It addresses traditional end of course tests as well as alternative measures such as portfolios exhibitions and student learning objectives In each case issues related to design and development psychometric considerations and validity challenges are covered from both a generic and a content specific perspective The NCME Applications of Educational Measurement and Assessment series includes edited volumes designed to inform research based applications of educational measurement and assessment Edited by leading experts these books are comprehensive and practical resources on the latest developments in the field The Open Access version of this book available

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