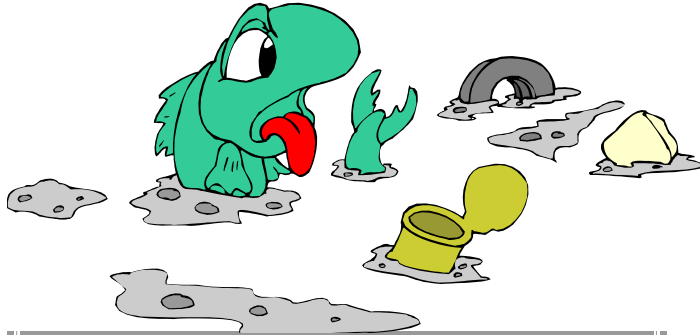


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Web resources at:
www.seasidek12.org

SEASIDE HIGH SCHOOL

Stream Ecology



Textbook: Investigating Aquatic Ecosystems(P-H)

Background Information

Stream ecology is an elective, advanced science course. We will be studying freshwater ecosystems, including abiotic factors like geophysical and chemical properties of streams, as well as biotic factors such as invertebrates, plants and vertebrates. We complete the term by studying the ecology of flowing waters. *

Requirements

















- Safe choices and behavior
- Completion of labs, assignments, and projects
- Participate cooperatively in class
- Demonstrate gains in scientific thinking, processes, and knowledge

Course Objectives and Outcomes
















- While gaining background information and skills necessary for other upper level science classes, students will gain an understanding freshwater ecological concepts.

**Common Core Standards listed on Back*

EXPECTATIONS

Be in class! You will miss important presentations, activities and labs if you are not present. Many of these events will not be duplicable. If you are absent, then it is up to you to find out what you missed and take care of it before the next class. Participate and you'll find your class time more enjoyable !

Be responsible! Along with your completed assignment, bring **only paper, pencils, textbook, and a scientific calculator.** Arrive on time and be ready to learn.

Grading

★ 90- 100 % = A	In-class activities,
★ 80- 89 % = B	labs, assignments, home-
★ 70- 79 % = C	work checks, quizzes, and
★ 60- 69 % = D	exams will be used to as-
★ 0—59 % = F	sess student progress.

Rules: All school rules apply in this class. No food or drink is allowed. Water, however, is acceptable on non-lab days. As we prepare students for college and career readiness, the importance of meeting deadlines is critical to their success. In order to meet that goal, students may not receive full credit for assignments that are not submitted on time as assigned.

Be safe! Safety is a priority in all science classes. Failure to follow clearly outlined safety guidelines may result in removal from class. Students who cannot operate safely in laboratory settings will be given bookwork to cover the same concepts.

I, _____ understand and agree to the above expectations, grading, and rules.
Print your first and last name here.

Student signature

Parent/guardian signature

date

Subject Standards learned in Stream Ecology include, but are not limited to:

- H.1E.2 Describe the structure, function, and composition of Earth's atmosphere, geosphere, and hydrosphere.
- H.2L.2 Explain how ecosystems change in response to disturbances and interactions. Analyze the relationships among biotic and abiotic factors in ecosystems.
- H.2E.1 Identify and predict the effect on energy sources, physical forces, and transfer processes that occur in the Earth system. Describe how matter and energy are cycled between system components over time.
- H.2E.4 Evaluate the impact of human activities on environmental quality and the sustainability of Earth systems. Describe how environmental factors influence resource management.
- 11-12.RST.2 Determine the central ideas or conclusions of a text; summarizing complex concepts, processes, or information presented in a text by paraphrasing them in simpler but still accurate terms.
- 11-12.RST.4 Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context.
- 11-12.RST.8 Evaluate the hypothesis, data, analysis, and conclusions in a science or technical text, verifying the data when possible and corroborating or challenging conclusions with other sources of information.
- 11-12.WHST.4 Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.
- 11-12.WHST.9 Draw evidence from informational texts to support analysis, reflection, and research.
- 11-12.WHST.2 Write informative/explanatory texts, including scientific procedures, experiments, or technical processes.