

Case Details

Case Title:

Capturing Tybee

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Grade Level(s):

Middle School

Subject(s):

Life Science

Summary:

Join up on an expedition to shoot at all sorts of organism...with a camera. You'll discover more about the ecosystems in your region and help contribute to conservation awareness!

Suggested Citation:

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http://www.cse.emory.edu/cases/casedisplay.cfm?case_id=1705

Learning Objectives:

1. Use process skills of observing, classifying, communicating, predicting, inferring, identifying variables.
2. Collect data scientifically by means of recording and analyzing data, and assess collected data by constructing hypothesis and drawing conclusions
3. Classify living things by similarities in structure, behavior, food needs, chemical makeup into kingdoms, phyla, classes, orders, families, genera, and species.
4. Describe the characteristics of major biomes; specifically describes the location, climate, and organisms of a coastal wetland
5. Describe the ability of organisms to change as necessity for species survival.

National/State Standards:

Georgia Performance Standards

SCSh1. Students will evaluate the importance of curiosity, honesty, openness, and skepticism in science. (NSES Content Standard A, G). b. Recognize that different explanations often can be given for the same evidence. c. Explain that further understanding of scientific problems relies on the design and execution of new experiments which may reinforce or weaken opposing explanations

SCSh6. Students will communicate scientific investigations and information clearly. (NSES Content Standard G) d. Participate in group discussions of scientific investigation and current scientific issues

SCSh8. Students will understand important features of the process of scientific inquiry. (NSES Content Standard A, G) c. Scientists use practices such as peer review and publication to reinforce the integrity of scientific activity and reporting. e. The ultimate goal of science is to develop an understanding of the natural universe which is free of biases. f. Science disciplines and traditions differ from one another in what is studied, techniques used, and outcomes sought.

S7L1. Students will investigate the diversity of living organisms and how they can be compared scientifically. (NSES Content Standard C) a. Demonstrate the process for the development of a dichotomous key. b. Classify organisms based on physical characteristics using a dichotomous key of the six kingdom system (archaeobacteria, eubacteria, protists, fungi, plants, and animals).

S7L4. Students will examine the dependence of organisms on one another and their environments. (NSES Content Standard C)