

Case Details

Case Title:

The Mystery Fossil

Author(s):

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Date Published:

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Grade Level(s):

Middle School

Subject(s):

Life Science

Summary:

Mr. Williams takes his class on a scavenger hunt for plants and animals that live in different areas of the school. The students are surprised to make a unique discovery which sparks their attention and lead them down different roads to what is being learning in class. What did they find? How does it apply to what they are learning?

Suggested Citation:

Lovelace, R., & Mittal, V. A. (2008). *The mystery fossil*. Retrieved June 03, 2012 from Emory University, CASES Online Web site:
http://www.cse.emory.edu/cases/casedisplay.cfm?case_id=742

Learning Objectives:

1. Explain how physical characteristics of organisms have changed over successive generations (e.g. Darwin's finches and peppered moths of Manchester).
2. Compare and contrast how modern humans are physically different from their ancestors.
3. Describe what kinds of mutations can be passed from parent to offspring.
4. Describe ways in which species on earth have evolved due to natural selection.
5. Explain how natural selection applies to the theory of evolution.
6. Give an example of selective breeding.
7. Trace evidence that the fossil record in sedimentary rock provides evidence for the long history of changing life forms.
8. Describe the process of fossil formation.
9. Describe the process of how fossil or formed.

National/State Standards:

Georgia Performance Standards

S7CS1. Students will explore of the importance of curiosity, honest, openness, and

skepticism in science and will exhibit these traits in their own efforts to understand how the world works. (NSES Content Standard A)

S7L5. Students will examine the evolution of living organisms through inherited characteristics that promote survival of organisms and the survival of successive generations of their offsprings. (NSES Content Standard C)