



Science Toolkit: Grade 4 Objective 3.F.1.a

Student Handout: Science: Grade 4 Objective 3.F.1.a

Standard 3.0 Life Science

Topic F. Ecology

Indicator 1. Explain ways that individuals and groups of organisms interact with each other and their environment.

Objective a. Identify and describe the interactions of organisms present in a habitat.

Competition for space, food, and water

Beneficial interactions: nesting, pollination, seed dispersal, oysters filtering as in the Chesapeake Bay, etc.

Roles within food chains and webs: scavengers, decomposers, producers, consumers.

Selected Response (SR) Item

Question

Use the information below to answer the following question.

Students examined plants and animals that live in and near the Chesapeake Bay. The students identified some features of these organisms, as seen in the table below.

| Organism | Habitat | Animal or Plant | Role |
|---------------|------------|-----------------|----------|
| Bald eagle | Land/water | Animal | Consumer |
| Bay grass | Water | Plant | Producer |
| Deer | Land | Animal | ? |
| Cypress tree | Land/water | Plant | Producer |
| Mute swan | Water | Animal | ? |
| Oyster | Water | Animal | ? |
| Pine tree | Land | Plant | Producer |
| Sandbar shark | Water | Animal | Consumer |
| Striped bass | Water | Animal | Consumer |

The students discover that mute swans eat mainly bay grass.

What role do mute swans have in the Chesapeake Bay area?

- A. consumer
- B. decomposer
- C. producer
- D. scavenger

Correct Answer

A. consumer

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