Activities for General Biology
Problem-Based Learning:
THINKING TOWARD SOLUTIONS:
How can plants defend themselves?

- Do ants protect redwoods from gypsy moth caterpillars?

Some ants protect redwoods from gypsy moth caterpillars. Ants eat the caterpillars, and the ants do not eat the redwood trees.

How can gypsy moth caterpillars attack redwood trees?

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CAMPING WITH CATERPILLARS

It was well after dark when the counselors' meeting ended. As Bob headed back to his bunk for the night, he noticed several large insects around the light in his room. He recognized them as gypsy moth caterpillars. And he wondered: are there any other caterpillars around? He had seen other caterpillars earlier that evening, but these were much larger. He wondered what they could be doing. Perhaps they were attracted to the light. Bob decided to check around to see if there were any more caterpillars. He found a few more, but they didn't seem to be attracted to the light. He realized that he would have to watch out for these caterpillars, as they could be harmful to the trees and plants in the camp area.
Basic Background Topics

Program
If you were Bob, how could you
write?
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Questions to ponder:

Two groups of boys interested in caterpillars as a part of the "Camping with Caterpillars" program who were sent to Bob's cabin. They were all dead, they were all dead. They were all dead, they were all dead. They were all dead. They were all dead.

Joey, a camper who got up early for a week of camp, after a few damp days, when a few days into the second week of camp, wakened everybody at the edge of the EpaYo Pond, hunters could ear yet another group of many caterpillars we could kill many caterpillars the caterpillar hunter was looking for saw the little pond, or sheep, poplar leaves, sheep's laurel, or yellow poplar leaves, sheep's laurel, or yellow poplar leaves, sheep's laurel, or yellow poplar leaves.

Insects in the area seemed unaffected by the campers' arrival. Other than the hundreds hung humpily on the live

CAMPING WITH CATERPILLARS
Stage 3: A Mystery Killer

Camping with Caterpillars
The life cycle and life history of the Gypsy moth

The oak-hickory forest ecosystem

Allochthonous

Diseases of tree and forest insect predators

(You may want to consult additional resources for information on these.)

More Advanced Topics

General aspects of insect classification

General stages in insect life cycles

Trophic levels

Characteristics of temperate deciduous forests

R versus K selection

Factors that influence population size

(Your textbook can be consulted for information on these.)

CAMPING WITH CATERPILLARS

Topics Introduced by the Problem:
CAMPING WITH CATERPILLARS

Additional Resources for Researching Problem Content:

 Camping with Caterpillars