

Bug Time

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Standard Statement(s): Grade School Students:

- 4.5.4A ID school yard pests
- 4.5.4B Explain Pest Control
- 4.5.7A Explain benefits and harmful effects of pests

High School Students:

- 4.5.12 Research IPM Systems

Content Objective(s):

High School Students will be able to:

1. Research the different IPM systems and explain the characteristics of each.

Grade School Students will be able to:

1. Identify basic school yard pests
2. Explain basic pest control
3. Explain the benefits and harmful effect of pests

Assessment Strategies:

Projects made by the grade school students.

Presentations/lessons made by the high school students

Background/Introduction to Topic:

Integrated Pest Management is an important concept that should be taught to children at an early age. Younger children should be able to identify basic insect and plant pests that they may find in the school yard or their own lawn and home. In order to make them responsible citizens we must give them the tools they need to make knowledgeable choices in the future. Many times some of the best teachers are the student's peers. The high school program will benefit because they will also learn more about the pests as they do the research for the lessons.

Procedures:

1. We will set up a program with the 3rd grade teachers to have "Bug Time" each week. This will be a short time period, possibly during the time that the grade school students use for science class. Time period will not exceed 45 minutes.
2. High School students will design a short lesson with an activity that will help the elementary students to understand IPM. The first lessons will revolve around basic ID skills and progress to include the different IPM methods.
3. Each lesson will have an oral presentation followed by an activity for the elementary students. Some examples of activities may include: design their own bug, collect and pin insects, take a nature walk, collect weeds and mount of paper, etc.

Suggested Level:
High School and
Third Grade

Standard Category:
4.5 IPM

Materials:
Construction paper
Markers
Crayons
Scissors
Other Basic Art supplies
Internet access

Instructional Strategies:

Conclusions: At the conclusion of the school year the high school students will work with the elementary teachers to design a bug display. Each student will be able to display their work for the parents to see in an open house.

References:

“Weeds” by A.C. Martin.
Published by Golden Books, 1987.

“Insects” by A.C. Martin.
Published by Golden Books, 1987.

Related Web Sites:

The National IPM Network
<http://www.reesusda.gov/agsys/nipmn/index.htm>

The PA IPM program
<http://paipm.cas.psu.edu/>

PA Dept. of Environmental Protection Agency
<http://www.dep.state.pa.us/>

DB Pest
<http://maarec.cas.psu.edu/dbpest.html>