

DATE: August 7, 2001
TIME: 60 minutes

GROUP: 5-8
ACTIVITY: Walking Tour of Apple Orchard

**TERHUNE ORCHARDS
SAMPLE LESSON PLAN**

SUBJECT: Integrated Pest Management

LESSON SUMMARY: Apples are one of the most popular fruits in the world and will live about 35 years if properly nurtured. Students will gain a foundation and basic understanding of agronomy, pomology, and disease and pest management, all necessary to achieve optimum apple quality and production.

OBJECTIVES:

- To gain familiarity with the apple tree and the process of production
- To introduce students to the scientific fundamentals of weed, disease and insect management
- The students will learn about alternatives to pesticides
- Students will determine when the use of pesticides is responsible management
- Students will learn about the life cycle of apple trees and their pests

TOPIC	DISCUSSION ACTIVITIES	TIME
LOCATION	Geographic Location Climate Soil Type Air Circulation	10 minutes
THE APPLE TREE	Market Demand Maturity for Harvest Standard vs. Dwarf Source of Nursery Stock	10 minutes
IDENTIFICATION OF PESTS	Weeds Disease Insects Scouting	5 minutes
WEATHER	Data Collection Data Analysis Satellite Monitoring	5 minutes
MANAGEMENT	Pruning Thinning of Fruit Determination of Best Practices	10 minutes
HARVEST	Washing Grading Packing Storage	10 minutes
WRAP-UP	Discussion Questions Advantages of Integrated Pest Management	10 minutes

- TERHUNE ORCHARDS CONTINUED -

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EXERCISE:

1. List the various pests of apples.
2. Discuss what factors will influence the use of controls.
3. Discuss why orchardists prune tree limbs.
4. Discuss why orchardists thin the fruit.
5. What are the advantages of Integrated Pest Management?
6. List other crops for which IMP can be used?

RESOURCES:

Terhune Orchards, <http://www.terhuneorchards.com/>

International Apple Institute, McLean VA

U.S. Apple Association, www.usapple.org

NJ apple varieties: <http://www.state.nj.us/agriculture/appletypes.html>

NJ apple facts: <http://www.state.nj.us/hangout/apple.html>

National Integrated Pest Management Network

<http://www.reeusda.gov/nipmn/>

** University of Kentucky Integrated Pest Management Manuals and Fact Sheets

<http://www.uky.edu/Agriculture/IPM/manuals.htm>

** NIPM - Northeast Region

<http://www.nysaes.cornell.edu/ipmnet/>