

IPM Lessons

Introduction

Now that students are familiar with ecology and some of the fundamental components of an ecosystem, they will have a clearer concept of integrated pest management (IPM) as a form of applied ecology. These lessons are arranged as a guided inquiry approach to learning about IPM. Students are guided through the steps of IPM before the term is defined. Once they have connected the steps of IPM with the concept of IPM they will then be able to branch into other ecosystems where IPM is practiced. Throughout these lessons students will build observation, reading, writing, and decision-making skills. The purpose of these lessons is to provide a foundation for awareness and implementation of IPM. They are not designed for a structured school-wide IPM program, but rather to increase awareness about environmental health and the role of pesticides. These lessons can be used as a building block for further lessons in IPM, life science, social studies, art, and mathematics; the possibilities are endless.

Appropriate SC Science Standards for the Following Outlined lessons

Grade 2:

- Inquiry,
A – Process Skills, 1a – Observe, 2a – Classify, 4a – Communicate, B – Inquiry, 1abd
- II. Life Science, A – Characteristics of Organisms, 1a 2ab
B – Life Cycles of Organisms, 1abc
C – Organisms and their Environments, 1a

Grade 3:

- I Inquiry
A – Process Skills, 1a – Observe, 2ab – Classify, 4a – Communicate
B – Inquiry, 1abe
- II. Life Science, A – Characteristics of Organisms, 1ab

Grade 4:

- Inquiry
A – Process Skills, 1a – Observe, 2ab – Classify, 4a – Communicate
B – Inquiry, 1 b1
- II. Life Science
A – Characteristics of Organisms, 1bc
B – Organisms and Their Environment, 1 b 2

Grade 5:

- I. Inquiry,
A – Process Skills, 1a – Observe, 2ab – Classify, 4a – Communicate,
B – Inquiry, 1abcdef

Grade 6:

- I. Inquiry
A – Abilities to do Scientific Inquiry, 1 – Identify process skills that can be used in scientific investigations a 1
2 – Design and conduct a scientific investigation c, g, h
4 – Develop descriptions, explanations, predictions, and models using evidence, a

7 – Communicate scientific procedures and explanations, a
Grade 7:

- I. Inquiry

A – Abilities Necessary to do Scientific Inquiry

1 – Identify process skills that can be used in scientific investigations, a 1,2; 2; d1

2 – Design and conduct a scientific investigation c

- II. Life Science

B – Regulation and Behavior, 1a

Resources for the Following Lesson

Minnesota Department of Agriculture, “What is a pest”

<http://www.mda.state.mn.us/IPM/IPMPubs.html#PestPatrol>

IPM Institute of America, “Inspect our house”

<http://www.ipminstitute.org>

University of California

<http://www.ipm.ucdavis.edu/PMG/selectnewpest.home.html>

National Pest Management Association

<http://www.pestworld.org/homeowners/spotlight/>