

Lesson 7

BUG BUDDIES



TEACHER'S PREVIEW

Grade Level

2-3

Learning

Outcomes

Science:

1. Demonstrate knowledge of what animals need to survive.
2. Explain how animals interact with each other.
3. Describe structures that enable animals to survive in different environments.

Environmental Message

Insects are part of a balanced ecosystem.

Important

Vocabulary

insect	meadow	woodland	larva
adaptation	habitat	life cycle	predator

Equipment and Material

Pictures of animals from magazines

Teaching aids: *Life Cycle of a Butterfly*
Insect Good Guys



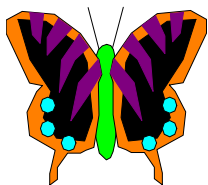
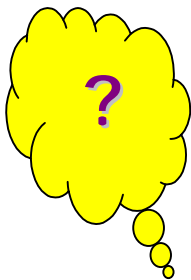
1. INTRODUCTION

Butterfly Friends

- A. Ask students to draw a picture of a butterfly they remember seeing. Ask them to think about where they were, the colour of the butterfly and what it was doing.
- B. Have the students share their experiences with the class.

A Butterfly's Life

Illustrate with "Life Cycle of a Butterfly" Teaching Aid.



Review the life cycle of butterflies with class.

- * Where do butterflies come from?
- * What do butterflies need to live? (Butterflies need nectar from flowers for food, water, shelter, sunlight and clean air.)
- * What do they eat when they're caterpillars? (As larvae, they eat leaves. Plants that are native to B.C. are preferred.)
- * How can people help butterflies living in their yard? (We can plant native plants for larvae, provide a source of shallow water and plant flowers for nectar.)
- * What happens to caterpillars when people spray their gardens with insecticides? (Caterpillars are killed along with the target pest so there are fewer butterflies in the summer.)
- * Why do we see more butterflies on warm sunny days? (Butterflies need warmth in order to fly.)
- * What kind of flowers do butterflies like? (Daisies and native flowers and plants that have room for them to perch on.)
- * What happens to butterflies during the winter? (Some die, some hibernate and many migrate to warmer places.)
- * What kind of animals are butterflies? (Insects.)
- * In what way are butterflies like other insects? (Insects have six legs, three body segments and wings during some part of their life.)

2. PRACTICE

Insect Helpers

Use the teaching aid "Insect Good Guys".

- A. Butterflies are beneficial insects because they help pollinate flowers. Ask the class to name some other "good" bugs.
- B. Make a list of insect good guys on the board.
- * What makes these bugs good guys? (Insects like ladybugs, dragonflies and parasitic wasps destroy pests. Many insects are food for other animals like birds.)

3. SHARING

- A. Make a mural depicting a habitat for butterflies. Show butterflies at different stages of their life cycle. Illustrate the kinds of plants they need and other insects and animals that share their habitat
- B. Plant a butterfly garden at your school. Be sure to get permission to do this.

4. ASSIGNMENTS

- A. Write a story about a day in the life of an insect. What dangers would it encounter? What does it need to live? How does it get the food, water and shelter it needs to live? How do wings help?
- B. There are more types of insects than any other animal. Have students make an Insect Collection using pictures from magazines. Label the pictures with the name of the insect and it's habitat and make a class binder of all the insects found.

5. CLOSURE

Like humans, insects are animals. On the board list how we are different from insects and how we are alike. Discuss why insects, good and bad, are important to have around.

6. EXTENSION ACTIVITY


- A. Care for a stick insect or butterfly larvae in the classroom.
- B. Visit the Butterfly Garden at Delta Recycling Society's Earthwise Garden. *The Going Buggy* Ecotour has been designed to complement this lesson.

7. SUPPORT DOCUMENTS

'Environment Kit' Delta Primary Division, available through Delta Media Library.

'Incredible Insects', Sunshine Science Series. Judy Ling. Ginn Publishing, 1994. Available through Delta Media Library.



Environmental Awareness Lesson Jointly Developed by:
 Delta Recycling Society and the Delta School District