Unit 9 Teacher Information

Ecosystems

Objectives

Ⓡ **SCI.8.11A** Describe producer/consumer, predator/prey, and parasite/host relationships as they occur in food webs in marine, freshwater and terrestrial ecosystems.

Ⓡ **SCI.8.11B** Investigate how organisms and populations in an ecosystem depend on and may compete for biotic and abiotic factors such as quantity of light, water, range of temperatures, or soil composition.

Ⓢ **SCI.8.11D** Recognize human dependence on ocean systems and explain how human activities such as runoff, artificial reefs, or use of resources have modified these systems.

Activity 1 Reviewing Relationships

 **Materials:**

* textbook, Internet, other print resources
* Organism pictures from different ecosystem, Marine, Freshwater and Terrestrial Ecosystem Project Sheets, scissors, glue

Notes to Teachers

 Copy the ecosystems front to back, if possible.

 Have each student complete a Marine and a Freshwater ecosystem food web. Give students a choice of which Terrestrial ecosystem to complete. When they are finished with their food web have them complete the charts on the back. All organisms will not be used.

 Parasites and hosts will be completed in the next activity.

Focus: I can describe various relationships in a number of ecosystems.

*Language Objective:* I can use a textbook or other resource to find information on a topic.

Activity 2 Parasites and Hosts

 **Materials:**

* Scissors and glue
* Clue cards and Parasite I.D. Cards

Note to teacher:

 Only 4 of the parasite I.D. cards will be used in this activity. Have students use the rest for their food web in the previous activity.

Focus: I can describe parasite/host relationships in an ecosystem.

*Language Objective:* I can work with my partners to solve mysteries by reading clues.

Activity 3 Competition

 **Materials:**

* brown paper lunch bag, Fruit Loops cereal, plastic zip-lock bag, timer/watch with second hand

Focus: I can investigate how organisms and populations in an ecosystem depend on and may compete for biotic and abiotic factors in an ecosystem.

*Language Objective*: I can work with my partners to complete a laboratory activity.

Activity 4 Why are Oceans Important?

 **Materials:**

* Our Ocean Rummy Cards, scissors, glue, construction paper 11 x 18

Focus: I can recognize human dependence on ocean systems and explain how human activities such as runoff, artificial reefs, or use of resources have modified these systems.

*Language Objective:* I can categorize human impacts and explain my thinking to my partners.