

2006-2007 WHRO Classroom Preview

Series Title: Life In Aquatic Environments
Curriculum Area: Science, Biology
Grades: 8 - 12
of Programs/Length: 2/35:00 & 45:00 minute programs

In these programs life is examined in terms of habitat, diversity, adaptation, ecological niches, and interrelationships. Modular presentation, stunning biological photography, and up-to-date learning design create a powerful teaching resource for the study of aquatic and marine life.

1. The Biology of Lakes, Ponds, Streams, and Wetlands (PREVIEW PROGRAM)

The Weedy Shallows: This unit places many of the organisms studied in biology into an ecological perspective: hydras, planarians, annelids, aquatic insects, rotifers, and protists, all interesting organisms that provide food for fish and other vertebrates.

Open Water Environments: Adaptations for planktonic life are observed in Daphnia and other cladocerans, copepods, rotifers, and planktonic algae.

Bottom Environment: Explores bacterial decomposition, recycling of materials, adaptations for bottom life, and ecological relationships in the bottom community.

Stream Life, Inhabitants, and Adaptations: This unit takes a revealing underwater look at the highly specialized organisms that live in rapids, under rock communities, and in slower waters.

Vernal Pools: Investigates adaptations for life in temporary wetland environments. 45:00

2. The Biology Of Seashores

Abiotic & Biotic Factors: Tides, wave shock, desiccation, and food sources.
Adaptations for Wave Shock: Shows the variety of body forms and structures found in an environment ripped by waves.

Defense: Examines structural, chemical, and behavioral adaptations that protect animals in this crowded environment.

Feeding: Looks at adaptations used to harvest the abundant food sources of the shore.

Reproduction: Examines asexual and sexual strategies and the importance of larval development in the plankton.

Rocky Shores, Sandy Beaches, Mudflats, Docks: Reveals complex webs of life living in these accessible habitats. 35:00