

Unit 9-Adaptations to Habitats

Study Guide

Unit Objectives

1. Define ecology and the related terms discussed.
2. Build a simple food web using only insects for the primary, secondary and tertiary trophic levels.
3. Describe the ways insects have adapted to the soil and aquatic environments.
4. Discuss the advantage of biological monitoring and the specific indications of poor water quality.

Define

Ecology

Environment

Biotic

Abiotic

Habitat

Niche

Population

Community

Ecosystem

Lentic

Lotic

What is a hydrofuge?

What is a plastron?

Describe what a Food web is and explain the different trophic levels in a food web.

Understand the different functional feeding groups such as shredders, collectors, etc.

How can insects be used to determine the level of pollution in aquatic habitats?

What is the advantage of biological monitoring over chemical testing?

What are some of the common water quality indicators to consider when considering aquatic habitat sampling?

What are some of the insects that are found in aquatic habitats?

What type of environment do the brine flies prefer? What do the brine flies eat and how do they reach their food source?

What are some of the advantages of living in the soil (if you were an insect)?

What are the characteristics that you would expect to find in an insect that lives in the soil?

What are some of the ways in which insects recycle nutrients?

What are some of the unique aspects of leafcutter ants? How do they benefit the rainforests?

What is the general rule of 10's?