





4.5 Aquatic Ecosystems

Lesson Objectives

-  Discuss the factors that affect aquatic ecosystems.
-  Identify the major categories of freshwater ecosystems.
-  Describe the importance of estuaries.
-  Describe and compare the distinct ocean zones that make up marine ecosystems.

Lesson Summary

Conditions Underwater Aquatic ecosystems are determined mainly by the depth, flow, temperature, and amount of dissolved nutrients of the water.

- ▶ The **photic zone** is the sunlit upper layer of water where photosynthesis can occur.
- ▶ The **aphotic zone** is the dark lower layer where photosynthesis cannot occur.
- ▶ The benthic zone is found on the bottoms of lakes, streams, and oceans. The organisms that live on the floor of a body of water are called **benthos**.

Freshwater Ecosystems Freshwater ecosystems include flowing-water ecosystems, standing-water ecosystems, and freshwater **wetlands**. **Plankton** are common. They form the base of many aquatic food webs.

Estuaries **Estuaries** are wetlands formed where rivers meet the sea. They contain a mixture of fresh and salt water. Most of the food produced in estuaries enters food webs as tiny pieces of organic matter, or detritus.

Marine Ecosystems Marine ecosystems are found in the ocean.

- ▶ The intertidal zone is the shallowest and closest to land. It is exposed to the rise and fall of tides each day.
- ▶ The coastal ocean is the relatively shallow border of water that surrounds the continents.
- ▶ The open ocean begins at the continental shelf and extends outward. The open ocean can be divided into the photic zone and the aphotic zone.

Conditions Underwater

1. What are the four main factors that affect aquatic ecosystems?

2. What does the depth of the water determine?

3. What distinguishes the photic zone from the aphotic zone in an aquatic ecosystem?

Skills Worksheet Concept Review Aquatic Ecosystems

Answers Key

Lingjun Ying



Skills Worksheet Concept Review Aquatic Ecosystems Answers Key:

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Gombatz-Gasper,2019-07-01 This is the chapter slice Climate and Ecosystems from the full lesson plan Climate Change Effects Students gain an understanding of the effects of climate change on the environment and human life Our resource explores how the evolution of human society is affected by the climate Start by going back in time and exploring the ice ages from Earth s past Learn about the lives of early humans and how climate has affected where they move and live Observe a homemade melting ice sheet to understand its effect on sea level Then create a model to show rising sea level in action Find out if climate change has any effect on the rise of extreme weather experienced in recent years Learn about the dangers to human health such as mosquitoes heat stroke and pollution See how changes in climate affect an area s economy by virtually destroying the farming industry Finally choose one ecosystem and find out how climate change is affecting it Written to Bloom s Taxonomy and STEAM initiatives additional hands on activities crossword word search comprehension quiz and answer key are also included *McGraw-Hill Education SAT 2015* Christopher Black,Mark Anestis,2014-06-13

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