

**Aquatic Ecosystems  
Guided Notes  
Section 1: Freshwater Ecosystems**

**Freshwater Ecosystems**

- The types of organisms in an aquatic ecosystem are mainly determined by the water's salinity. As a result, aquatic ecosystems are divided into freshwater and marine ecosystems.
- Freshwater ecosystems include ponds lakes streams rivers and wetlands
- Wetlands are areas of land that are periodically underwater or whose soil contains a great deal of moisture.

**Characteristics of Aquatic Ecosystems**

- Factors such as temperature, sunlight, oxygen, and nutrients determine which organisms live in which area of the water.
- Aquatic ecosystems contain several types of organisms that are grouped by their location and by their adaptation.
- Three groups of aquatic organisms include plankton, nekton, and benthos.
- plankton are the mass of mostly microscopic organisms that float or drift freely in the water, and can be microscopic animals called zooplankton or microscopic plants called phytoplankton.
- Nekton are all organisms that swim actively in open water, independent of currents.
- Benthos are bottom-dwelling organisms of the sea or ocean and are often attached to hard surfaces.
- Decomposers are also aquatic organisms.

**Lakes and Ponds**

- Lakes, ponds, and wetlands can form naturally where groundwater reaches the Earth's surface.
- Humans intentionally create artificial lakes by damming flowing rivers and streams to use them for power, irrigation, water storage, and recreation.
- Lakes and ponds can be structured into horizontal and vertical zones. The types of organisms present depend on the amount of sunlight available.

**Life in a Lake**

- The littoral zone is a shallow zone in a freshwater habitat where light reaches the bottom and nurtures plants and aquatic life is diverse and abundant.
- Some plants are rooted in the mud underwater with their upper leaves and stems above water. Other plants have floating leaves.
- In open water, plants, algae, and some bacteria capture solar energy to make their own food during photosynthesis.
- Some bodies of fresh water have areas so deep that there is too little light for photosynthesis.
- Bacteria live in the deep areas of freshwater. Fish adapted to cooler, darker water also live there.
- Eventually, dead and decaying organisms reach the benthic zone.
- The benthic zone is the region near the bottom of a pond, lake or ocean which is inhabited by decomposers, insect larvae, and clams.
- Animals that live in lakes and ponds have adaptations that help them obtain what they need to survive.
- For example, water beetles use the hairs under their bodies to trap surface air so that they can breathe during their dives for food.



# Freshwater Guided And Study Answers

**LL Leslie**

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,1871 Synthesis and Modelling of Intermittent Estuaries W.R. Cuff,M. Tomczak,1983-08 This book reports on the findings of and summarizes the conclusions from the Port Hacking Estuary Project a model guided multidisciplinary study of an estuarine ecosystem The Project began in 1973 at a time when it was thought that environmental problems could be solved readily by assembling a multidisciplinary team of research scientists and having them coordinate their research around the construction of an ecosystem model But a decade has passed and time has not been easy on this approach The anticipated predictive dynamic models have not been produced and bitter argument has often marred the course of such studies Yet the need to anticipate the flow of various chemical species carbon oxygen nitrogen phosphorus toxicants through the environment remains the evidence is everywhere from fertilization of urban lakes to acid rain The magnitude of the problem ensures that funds will continue to be made available although with short term variations as perceptions swing It is thus clear that although the difficulties are great so is the need It is from this background that we present this book The Port Hacking Estuary Project involved some 15 20 research scientists over a period of 5 years The goal was to research the flow of carbon into within and out of a small unpolluted estuary chosen for convenience rather than for its social significance The idea was to use the information obtained from these studies to build a predictive dynamic model **Exploring Canada and Latin America** Bert Bower,1991 APO News Asian Productivity Organization,2000 Florida Wildlife ,2010 English Mechanic and Mirror of Science and Art ,1871 Current ,2003

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