

Learning Outcomes/Expectations - Aquatics

Participants should be able to:

- T identify at least three characteristics or properties of water and explain how they relate to or affect aquatic organisms
- T identify at least three chemical factors in water and how they affect aquatic life
- T explain how aquatic organisms are adapted to these characteristics
- T describe and compare the differences between fresh water systems and tidal rivers and estuaries
- T relate the elements of each community to physical characteristics and processes in the environment

Participants should be able to:

- T identify aquatic species common to Prince Edward Island
- T identify aquatic species at risk on PEI
- T describe the flow of energy through an aquatic system, with emphasis on the food chain and webs
- T define a watershed on a topographical map
- T understand the importance of buffers and hedgerows to the protection of aquatic systems

Participants should be able to:

- T describe the nutrient cycle within an aquatic system with particular emphasis on:
 - (a) carbon
 - (b) phosphorus
 - (c) nitrogen
- T define carrying capacity
- T explain population cycles
- T describe succession in aquatic systems

Participants should be able to:

- T explain how humans use aquatic ecosystems and organisms
- T explain the human impacts on aquatic ecosystems
- T define methods of addressing human-related impacts on aquatic systems
- T explain the principle of "sustainable development" and how it applies to Island aquatic ecosystems