

Aquatics Ecology Guidelines Correlated to National Science Standards

Key National Science Standard (NSS)

UC	Unifying Concepts
I	Inquiry
P	Physical Science
L	Life Science
E	Earth & Space Science
ST	Science & Technology
SP	Personal & Social Perspective
H	History & Nature of Science

Learning Objectives:	Key Point 2: Biotic Factors	Activity	NSS	Topic
1.	Understand the dependence of all organisms on one another and how energy and matter flow within an aquatic ecosystem.	Compare and Contrast different food chains	I, UC,E, L, SP	Interdependence of Organisms, Environmental quality
2.	Understand the concept of carrying capacity for a given aquatic ecosystem, and be able to discuss how competing water usage may affect the ability of the system to sustain wildlife, forestry and anthropogenic needs.	Analyze and discuss human actions	I, UC, L, SP	Matter, Energy and Organization in Living Systems
3.	Identify common, rare, threatened and endangered aquatic species as well as Aquatic Nuisance Species	Visual display	I, UC, L, SP	Interdependence of Organisms, Behavior of Organisms

	(ANS) through the use of a key.			
4.	Know how to perform biological water quality monitoring tests and understand why these tests are used to assess and manage aquatic environments.	Biological stream assessment	I, UC , P, E, L, ST, SP	Environmental quality