

## 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 1: Abiotic Factors	Activity	NSS	Topic
1.	Know the processes and phases for each part of the water cycle and understand the water cycle's role in soil nutrient erosion, salinization of agricultural lands, and climatic influences.	Study	I, P, E, UC, SP, ST	Natural Resources, Environmental Quality
2.	Understand the concept and components of a watershed and be able to identify stream orders and watershed boundaries. Know the features of a healthy watershed and an unhealthy watershed.	Use topographic maps	E, UC, SP	Earth Science, Natural Resources
3.	Know how to perform and interpret chemical water quality tests and understand why aquatic organisms and water quality is affected by the physical, chemical and biological conditions of the water.	Chemical stream assessment	I, UC, P, E, L, ST, SP	Physical, Earth, and Life Sciences, Environmental quality