

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 4: Water Protection and Conservation	Activity	NSS	Topic
1.	Understand how education programs and enforcement agencies are working together to protect aquatic habitats and preventing those who use our waterways from inadvertently transporting Aquatic Nuisance Species ANS from one river to another.	Study of Aquatic Nuisance Species	I, UC, SP	Environmental quality Personal and Social perspective
2.	Interpret major provincial and /or federal laws and methods used to protect water quality (i.e. surface and ground water). Utilize this information to propose management decisions that would improve the quality of water in a given situation.	Interpreting water quality laws	I, SP, H	Environmental Quality, Personal and Social perspective
3.	Be familiar with the Federal, Provincial and state agencies that provide oversight of water resources,	Study of how GIS is used in Natural	E, ST, SP	Natural resources Science and Technology

	and understand that Geographic Information Systems (GIS) is a useful and important tool in the management of water resources.	resources management		
4.	Identify global and local sources of point and non-point source pollution and be able to discuss methods to reduce point and non-point source pollution.	Discussion and field study	E, UC	Environmental quality Natural & human hazards Personal and social perspective
5.	Understand the interaction of competing uses of water for water supply, hydropower, navigation, wildlife, recreation, waste assimilation, irrigation, and industry.	Compare water usage in Canada and U.S.	E, UC, SP	Natural Resources, Personal and Social Perspective
6.	Know the meaning of water conservation, and understand why it is important every time you turn on a faucet.	Design a water conservation plan	E, UC, SP	Natural resources, Environmental Quality, Personal and Social Perspective