

**Shediac Bay Watershed Association
Presentation Series - Grade 6 – 8**



Level	Subject	Presentation Title	Content
Grade 6-8	ABOUT SBWA	Introduction - The Shediac Bay Watershed Association, your local environmental	What is a watershed?
			What does a watershed group do? (Brief overview of our project)
			Sampling Water Quality (Freshwater, saltwater, environmental DNA sampling)
			Saltwater Ecosystem Monitoring
			Invasive Green Crab Monitoring
			Eelgrass Monitoring
			Seabirds - Nesting Platform
			Macroinvertebrate sampling
			Freshwater Fish and Habitat Restoration
			Rain Barrels and Naturalized Stormwater Management
			Other
Grade 6-8	Aquatic Ecosystems	Freshwater & Saltwater Ecosystems	Freshwater vs Saltwater
			What is an Estuary?
			Fish Tolerance to Salt
			Inland Fish Species of NB
			Saltwater species of the Shediac Bay
			Freshwater Species of the Shediac and Scoudouc Rivers
			Macroinvertebrates
			Freshwater Mussels
			Mammals
			Beaver Dams
			Reptiles & Amphibians
Fish Habitat: Water Quality, Food, Threats, Threat Mitigation			

Grade 6-8	Biodiversity	Biodiversity & Ecosystems	What is Biodiversity?
			Taxonomic Classification System (introduction)
			What is an Ecosystem
			Adaptation
			Food Chain and Trophic Networks
			Energy Transfer and Bioaccumulation
			Relations and Interactions
			Threats to Biodiversity: Pollution, Habitat Loss, Invasive Species
			How to Help Wildlife
			Darwin and the Galapagos Islands
Grade 6-8	Water (Part 1)	Water Conservation and Climate Change	How Much Water is there on Earth - Freshwater vs Saltwater
			Desalination
			How Much Water Do We Have in Canada?
			Water Usage at Home
			Climate Change
			Drinking Water in Shediac
			What Can We Do? Conserve Drinking Water! (Methods)
Grade 6-8	Water (Part 2)	Water - Pollution, Stormwater and Purification Systems	What is a Watershed
			Sources of Pollution in a Watershed
			Stormwater Runoff
			Link Between Stormwater Runoff and Water Quality in the Shediac Bay
			Tides and Ocean Currents
			Wetland - Natural and Artificial
			Stormwater Runoff Management
			Filtration Systems - Activated Charcoal Experiment
Grade 6-8	Water (Combination of part 1 and 2)	Water Conservation and Stormwater Management	What is a Watershed
			Sources of Pollution in a Watershed
			Stormwater Runoff

			Link Between Stormwater Runoff and Water Quality in the Shediac Bay
			What Can We Do? Stormwater Management
			Rain Gardens and Constructed Wetlands
			Rain Barrels
			Water Conservation
Grade 6-8	Habitat	Wetlands	What Are Wetlands?
			Types of Wetlands
			Wetland ecosystems
			Ecosystem Services of Wetlands
			Wetlands and Development - Coastal Squeeze
			How to Protect Wetlands
Grade 6-8	Recycling	Recycling, Sorting & Life Cycle of Plastic	The 5R's
			The Nature of Things - Raw Materials (Mining, Transportation, Transformation)
			Plastics - Life Cycle
			Sanitary Landfills
			What Can You Do?
			3-Bag Sorting (Southeast Eco360)
			Your Mission!
Grade 6-8	Climate Change	Erosion, Coastal Zones & Climate Change	Weathering and Erosion; The Basics
			Surface Runoff
			Effects of Erosion on Rivers: Sedimentation and Turbidity
			Sources of Sediment
			Stream Restoration - Erosion Control
			The Buffer Zone
			Erosion of NB's Coastal Areas
			Sand Dunes: Why are they Important?
			Preventative Measures for Coastal Erosion
			Climate Change and Sea Level Rise

