Wetlands Thematic Instructional Sequence

Activity	Concept	
	 Estuaries are special wetlands where salt 	
BUILD A WETLAND	and fresh water mix.	
3 sessions	 Estuaries include open water, mud flats and 	
	salt marshes.	
	 Many different kinds of organisms live in an 	
	estuary. Each organism lives in a particular	
	part of the estuary.	
Transition: We've learned about different organisms of the wetlands and		
estuaries, including how they are adapted to this habitat and how they		
interact with each other. Now let's learn a song about the web of life that		
supports the wetland habitat and the water that makes up the wetland.		
	 Estuaries are formed where fresh water 	
ESTUARY I TEE	from a river mixes with salty ocean water.	
3 sessions	 Estuaries provide habitat for many 	
5 3531013	different types of living things.	
	 Human impact may harm estuary 	
	communities.	
Transition: We have learned more details about some of the organisms that		
live in the "salty and fresh" water of the estuary and how people sometimes		
harm this habitat. Now let's find out more about how scientists work as we		
observe one wetland organism very carefully.		
	 Scientists need to make careful 	
OYSTER BEDS	observations and communicate them clearly in	
3 sessions	order to learn about the natural world.	
0 303510113	 Poetry offers a way for people to 	
	communicate their thoughts and feeling s	
	about the special qualities and values of the	
	ocean habitats.	
Transition: Now is our chance to get to know another organism of the		
watland as we continue being scientists - Lat's learn about clower on the		

wetland as we continue being scientists. Let's learn about clams on the outside and on the inside to discover more about the parts of its body and how it makes its living in the mud.

	• Each animal has special body parts and ways	
	of behaving, which are adaptations to survive	
CLAMS INSIDE AND	and be successful in their habitat.	
OUT	 Scientists use dissection as a way of 	
3 sessions	learning more about an animal's body parts and	
	how the parts work together. These body	
	parts are called structures.	
Transition: Now that we have looked very closely at the structures of a		
clam and how it survives in its habitat, let's check out another very different		
animal living in a wetland. This time we will have the chance to learn about a		
living creature and observe how it moves. As scientists we will ask questions		
and then do an investigation to try to answer our questions.		
	 Crayfish have many adaptations to survive 	
CRAVETSH	and thrive in a wetland habitat.	
	• Scientists learn about the world through an	
	inquiry process.	
3-5 sessions	 Inquiry science consists of making 	
	observations about the world, asking	
	questions about the observations, doing	
	investigations to discover answers to	
	questions and making new observations leading	
	to new explanations and questions.	
	• Scientists communicate about their own and	
	their peers' investigations and explanations.	
Transition : The tides bring s	alt water to wetlands from the ocean. Rivers	
bring fresh water to wetlands from the land. Now we are going to do		
another investigation to see what happens to salt and fresh water when they		
meet.		
	• Salinity is a measure of the amount of salt	
	dissolved in a liquid.	
SALINITY CURRENTS	• Fresh water will float on top of saltier	
3 sessions	water.	
	• Fresh water is less dense than salt water.	
	• Salinity currents can form when fresh water	
	from the land and salt water from the ocean	
	meet in an estuary.	
Transition: Now we are ready to put together everything we have learned		
about a wetland and the organisms that live there. Let's pretend that we are		

all different types of birds living and feeding in a wetland. Which type of bird has the very best beak for feeding on organisms living in the wetland? Which bird is the most well adapted? Now is our chance to find the answers to those questions.

BIRD BEAK BUFFET 3 sessions Transition:	 Different types of shorebirds can feed together in one area because each type is adapted to feed on different types of prey. (This is called resource partitioning.) Adaptations are features or behaviors that improve an organism's chance for survival. Scientists often use math when they gather data about animals. Graphing the data helps us to discover patterns and explain observations.