

HABITAT HEROES
BAYSIDE ELEMENTARY SCHOOL

FINAL REPORT

2007/2008

CURRICULUM OUTLINE
PROGRAM SCHEDULE
RESTORATION SUMMARY
PROGRAM COMMENTS

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CURRICULUM OUTLINE

Grade 3

In Class 1

1. Introduction to Estuary Explorers
2. Watershed introduction
3. Grounding activity
 - a. "My Place in the Watershed"
4. Build a watershed model
5. Field manners

Field Trip 1

Tijuana Estuary

1. Birds
2. Build a watershed model
3. Plants

In Class 2

1. Reading of "The Lorax"
2. Plant adaptation worksheet
3. Invention of a theoretical plant
 - a. Emphasizing adaptations to their habitat

Field Trip 2

South San Diego Bay National Wildlife Refuge

1. Oil and feathers activity
2. Horned snail / Water sample
3. Bird / Plant Hike
 - a. Emphasis on adaptation

In Class 3

1. Students read "Sarah and the Terns"
2. Build a Shorebird activity
3. Shorebird adaptation worksheet

Field Trip 3

South San Diego Bay National Wildlife Refuge

1. Restoration
2. Days of Their Lives game
 - a. Model of human influences on shorebirds
3. Fred the Fish game
 - a. Model of human influences on fish

Grade 4

In Class 1

1. Program Intro
2. Watershed (review)
3. Food Chain - SDNHM models
4. Rocks/Minerals

Field Trip 1

Crestridge Ecological Reserve

1. Restoration
2. Field Hike – Kumeyaay & Food Chain
3. Live Reptile Presentation – Food Chain emphasis
4. Mineral/Rocks Craft
5. Animal Signs and Tracks
6. Lunch Presentation - Skulls

In Class 2

1. Sweetwater Safari
2. Bird Adaptations
3. Plants
4. Plankton

Field Trip 2 –

Sweetwater Marsh

Chula Vista Nature Center

1. Plants
2. Birds
3. Plankton

In Class 3

1. Plant Anatomy
2. Pollination
3. Seed Dispersal

Field Trip 3

South San Diego Bay National Wildlife Refuge

1. Restoration
2. Bird/Plant Hike
3. Water Cleaning Experiment

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CURRICULUM OUTLINE

Grade 5

In Class 1

1. Journal
2. Stewardship
3. Watershed
4. Water Cycle
5. Potable water

Field Trip 1

Crestridge Ecological Reserve

1. Watershed Model / Water Testing Kit
2. Field Hike – id of spp & geology
3. Reptiles – Organs, Anatomy
4. Plant a take home native plant
5. Lunch – Water Magic

In Class 2

1. Water Cycle Review
2. Meteorology
3. Clouds
4. Bottle Magic
 - a. Rain
 - b. Cloud
 - c. Tornado

Field Trip 2

South San Diego Bay National Wildlife

Refuge

1. Water Quality
2. Go to the Head of the Cloud
3. Restoration

In Class 3

1. Meteorology Review
2. Fieldtrip 2 discussion
3. Shorebird Intro
4. Shorebird Adaptations
5. What can I eat with this beak?

Field Trip 3

South San Diego Bay National Wildlife

Refuge

1. Habitat/Migration/Rufus Humming Bird
2. Explore w/ Shorebirds
3. Bird Hike – Habitat and Adaptations

Grade 6

In Class 1

1. Introduction to Crestridge Ecological Reserve
2. Field manners
3. Watershed introduction
4. Sum of Parts activity
5. Non-point source pollution (NPS) and best management practices (BMP)
6. Model of pollution in San Diego Bay

Field Trip 1

Crestridge Ecological Reserve

1. Erosion
2. Field Hike - GPS
3. Restoration
4. Reptile presentation
5. Bird feeder
6. Lunch - Astronomy

In Class 2

1. Wetland Food Web Intro
2. Wetland Food Web Worksheet
3. Producer/Consumer/Decomposer Activity

Field Trip 2

South San Diego Bay National Wildlife

Refuge

1. Hike
 - a. Focus on biotic and abiotic resources
2. Sea Turtle Activity
3. Take Home Plant

In Class 3

1. Human Alterations to Habitats
2. Shorebird Survival

Field Trip 3

South San Diego Bay National Wildlife

Refuge

1. Restoration
2. Watershed
3. Oil/Feathers

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SCHEDULE OF PRESENTATIONS AND FIELD TRIPS

Grade	Teacher	# Kids	In 1	FT 1	In 2	FT 2	In 3	FT 3
3	Socorro Garcia	20	10/22/07	10/24/07	10/16/07	10/17/07		
3	Virginia Schange	20	10/22/07	10/24/07	10/16/07	10/17/07		
3	Anabel Coyle	20	10/22/07	10/26/07	10/16/07	10/18/07	11/30/07	12/04/07
3	Guadalupe Marquez	20	10/22/07	10/26/07	10/16/07	10/18/07	11/30/07	12/04/07
4	Sherry Steagall	32	09/17/07	06/05/08	10/16/07	10/19/07	05/27/08	05/30/08
4	Marcus Navarro	32	09/17/07	06/05/08	10/11/07	10/12/07	05/27/08	05/29/08
5	Kimberly King	32	09/18/07	09/24/07	06/17/08	06/19/08	06/17/08	06/20/08
6	Karen George	32	09/18/07	09/24/07	06/17/08	06/19/08	06/17/08	06/20/08
6	Eduardo Salazar	32	09/19/07	09/27/07	06/02/08	06/03/08	06/02/08	06/06/08
6	Michelle Westendorff	32	09/19/07	09/27/07	06/02/08	06/03/08	06/02/08	06/06/08
	Total Students:	272						

Table 1: Habitat Heroes – Bayside Elementary 2007/2008 Schedule of Presentations and Field Trips

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RESTORATION SUMMARY

Bayside Elementary students restored habitat at Crestridge Ecological Reserve and the South San Diego Bay National Wildlife Refuge.

~0.06 acres of Native grasslands were restored at the South Crestridge Ecological Reserve. 272 grass plugs *Nassella pulchra* (Purple Needle Grass) were planted.

~0.09 acres of Coastal Sage Scrub were restored at the South San Diego Bay National Wildlife Refuge. 135 1-gallon native plants were restored. The plant palette includes the following species:

<u>Scientific Name</u>	<u>Common Name</u>
<u>Coastal Sage Scrub</u>	
<i>Artemisia californica</i>	California Sage
<i>Atriplex lentiformis</i>	Salt Bush
<i>Encelia californica</i>	Bush Sunflower
<i>Eriogonum fasciculatum</i>	California Buckwheat
<i>Eriophyllum confertifolium</i>	Golden Yarrow
<i>Hemizonia fasciculata</i>	Clustered Tarweed
<i>Isocoma meziezii</i> var. <i>menziezii</i>	Coast Goldenbush
<i>Isomeris arborea</i>	Bladder Pod
<i>Lotus scoparius</i>	Deerweed
<i>Lupinus</i>	Lupine
<i>Mimulus aurantiacus</i>	Monkey Flower
<i>Rhus integrifolia</i>	Lemonade Berry
<i>Salvia apiana</i>	White Sage
<i>Salvia clevelandii</i>	Cleveland Sage
<i>Salvia mellifera</i>	Black Sage
<i>Sambucus mexicana</i>	Mexican Elderberry

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PROGRAM COMMENTS

I wanted to thank you for allowing my class to go on the Habitat Heroes field trips. My students all loved the three field trips that we got to go on. They loved the hands-on experiences. They said that these were their favorite trips that we had been on this year, and we were even complimented on being the best classes that Habitat Heroes had seen this year!

As you know, I have a very active class and it can be very difficult to keep them all actively engaged at times. We got to go on our last two field trips last Friday and yesterday. For the first time all year, I finally felt that all of the hard work that I have put into trying to get all of my students to pay attention and try to learn all of the science standards has paid off. When the docents were asking questions, my class knew most of the answers about rocks and minerals, volcanoes and earthquakes, and the life cycles of plants and animals. It was awesome to see all of these standards reinforced on these field trips as well as some standards on CA Indians. I was proud to see that my students were really learning, when at times, I thought some of them were not. It was great that the students got to leave each trip with shadow boxes full of different rocks and minerals and plaster animal tracks that they got to make.

This was my first year taking my 4th grade class on the Habitat Heroes field trips and I hope to be able to take my classes in the future. It would be nice if we could go on one field trip each trimester instead of trying to squeeze them all in at the end of the year. I think they do a wonderful job not only teaching important science and social studies standards, but also give the students some life experiences that they may not ever be able to have. They learn to better appreciate the Earth, give back to it, and take care of it for the future.

I just wanted to thank you again and let you know what great field trips we had with Habitat Heroes and I hope we will continue to be able to go on them in the future.

Sherry Steagall

4th Grade

Bayside Elementary