



Science Unit: *Marine Critters & Communities*

Lesson 4: *Rocky Shore Field Trip*

School Year: 2007/2008
Developed for: L'École Bilingue, Vancouver School District
Developed by: Jean Marcus (scientist), Chantal Bennett and Claire Létourneau (teachers)
Grade level: Presented to grades 2 - 3; appropriate for grades 1 – 6 with age appropriate modifications; Présenté au niveau de la 2e et 3e année; approprié aux niveaux de la 1re à la 6e année en y apportant les modifications nécessaires.
Duration of lesson: 4 hours
Notes: This lesson was taught at the Reed Point Marina, Port Moody, BC.

Objectives

1. To see, touch, smell and explore the LIVE marine animals and plants that students have learned about during Lesson 2 and Lesson 3 in their natural habitat.
2. Discover life at a marina, including experiencing a sea lion research facility and a boat trip.

Background Information

A field trip was organized for the students to explore first-hand the marine environment and the rocky shore animals and plants that they have learned about in the past two lessons. Note that organisms selected for the Rocky Shore Mural were chosen as there was a good chance the students could experience these organisms themselves during this field trip.

The field trip took place at the Reed Point Marine Education Centre in Port Moody. This centre is operated by Rod MacVicar. Contact information is as follows:

Rod MacVicar, REED POINT MARINE EDUCATION CENTRE
18 Boulderwood Place
Port Moody
V3H 4G7
Email: rsmacvic@popserver.sfu.ca
Web site: <http://www.reedpoint.com/research.html>

Field Trip Experience

The two classes were divided into 3 groups. The field trip had three stations/activities. Approximately 45 minutes was scheduled for each activity:

1. Intertidal animals were examined on the dock in touch tanks, pools and aquaria at the Marine Education Centre. **See Table 1 for a species list.** Students observed and drew the plants and animals, made seaweed art, and learned various fun facts about the organisms. This activity was led by the Scientist.
2. Students went on a boat trip. They conducted a plankton tow to gather small pelagic organisms and learned about seabirds, seals and other marine critters. This activity was led by Rod MacVicar.



SCIENTIST IN RESIDENCE PROGRAM

3. Students visited the sea lion research facility at the Reed Point Marina. They had the opportunity to ask a sea lion scientist questions about the animals and their research. This activity was led by Dave Gummesson.

Contacts: Dave Gummesson (at Reed Point), gummesson@zoology.ubc.ca; and Pamela Rosenbaum (at UBC's Marine Mammal Research Unit), consortium@zoology.ubc.ca.

Field Trip Closure

The field trip ended with lunch at Barnet Marine Park, a fabulous public beach facility where the students can explore a marine environment by themselves.

http://www.city.burnaby.bc.ca/cityhall/departments/departments_parks/prksrc_prksan/prksrc_prksan_brntmr.html

Table 1. Species List of organisms seen during the field trip

Taxa	Common name	Scientific name
Mammals	Steller sea lion	<i>Eumetopias jubatus</i>
	Harbour seal	<i>Phoca vitulina</i>
Mollusks	Nuttall's Cockle	<i>Clinocardium nattali</i>
	Mussel	<i>Mytilus edulis</i>
Echinoderms	Leather star	<i>Dermasterias imbricata</i>
	Ochre sea star	<i>Pisaster ochraceus</i>
	Sunflower star	<i>Pycnopodia helianthoides</i>
	California stichopus (sea cucumber)	<i>Stichopus californicus</i>
Cnidarians	Moon jelly	<i>Aurelia aurita</i>
	Anemones	Various species
Crustaceans	Red crab	<i>Cancer productus</i>
	Dungeness crab	<i>Cancer magister</i>
	Acorn barnacle	<i>Balanus glandula</i>
Algae	Kelp	Various species
	Rockweed	<i>Fucus distichus</i>
	Enteromorpha (green algae)	<i>Enteromorpha</i> spp.
	Sea lettuce	<i>Ulva</i> spp.
Plankton	Various	Sea grapes, larvae of various critters, jellies etc.