



# K-12 Environmental Educational Outreach on the North Olympic Peninsula

**Engage your students and children in environmental educational programs offered by organizations on the North Olympic Peninsula.**

This brochure presents the educational outreach offered on the North Olympic Peninsula in 2015-16. The programs are divided into K-12 school programs, curriculum and out of school programs. The school programs are offered during normal school hours and may be a classroom visit, a field investigation or a combination of a classroom visit and a field investigation. Several of the programs provide funding for transportation. The curricula include lesson plans and educational materials for use by the individual teachers. Out of school programs include summer camps, year round clubs and special programs such as sailing on the schooner *Adventuress*.

The information under each program type is listed by grade, the topic/title of the programs, which school districts where the programs are offered, the organizations providing the outreach, and contact information for the lead educational outreach person. The following organizations have participated in Common Core and Next Generation Science Standards (CG/NGSS) workshops provided by Pacific Education Institute: Clallam County 4-H, Feiro Marine Life Center, Jefferson Land Trust, NatureBridge, NOSC, OCNMS, Olympic National Park and S'Klallam Jamestown Tribe.

*The information in this brochure has been compiled by the Strait ECO Net, an educational outreach network for the Strait of Juan de Fuca, under a grant from the Puget Sound Partnership.*

## Curriculum

GRADE	CURRICULUM	CC/NGSS	SCHL. DIST.	ORG.	CONTACT
K-6	Discovery Trunks		PT, Sq, PA, Cr, CF	ONP	Dean Butterworth, 360-565-3146 dean_butterworth@nps.gov
4-HS	Water quality and timber value assessment, steam cable lesson model		PT, Sq, PA, Cr	DRAC	Tom Butler, 360-681-4076 rceeducation@olympus.net
6-8	Freeing Elwha		PT, Sq, PA, Cr, CF	ONP	Dean Butterworth, 360-565-3146 dean_butterworth@nps.gov
K-12	Curriculum on ocean acidification, marine debris, water quality.	✓	CF	OCNMS	Nicole Harris, 60-457-6622 ext 19 nicole.harris@noaa.gov
K-12	4-H. Curriculum. Project based experiential STEM learning.		Sq, PA, Cr	WSU ext	Jenny Schmidt, 360-417-2398 jenny.schmidt@wsu.edu
K-12	4-H. Curriculum. Project based experiential STEM learning.		Ch, PT	WSU ext	Sue Hay, 360-379-5610 x 208 sue.hay@wsu.edu
K-12, youth	Inquiry-based: forest ecology, watershed, earth science, Elwha, and marine		Sq, PA	NB	Jen Kidder, 360-928-3720 ext 14 jkidder@naturebridge.org

## Other Programs

CAMPS
  CLUBS
  OTHER PROGRAMS

GRADE	PROGRAM	SCHL. DIST.	ORG.	CONTACT
Ages 3-13	Summer camps	PT, Sq, PA, Cr, CF	PTMSC	Chrissy McLean, 360-385-5582 ext 109 cmclean@ptmsc.org
Age 5-15	Junior Oceanographer, summer camp, 4 days	Sq, PA, Cr, CF	Feiro OCNMS	Rachele Brown, 360-417-6254 racheleb@feiromarinelifecenter.org
Ages 7-13	Summer camps. Day programs	PT, Sq, PA, Cr	DRAC	Tom Butler, 360-681-4076 rceeducation@olympus.net
K-7	Summer camps, 1-2 days	CF	OCNMS	nicole.harris@noaa.gov, 360-457-6622 x 19
K-12	4-H. Potential science clubs or programs.	Sq, PA, Cr, CF, QV, QTS	WSU ext.	Jenny Schmidt, 360-417-2398 jenny.schmidt@wsu.edu
K-12	Potential science clubs or programs: Food waste reduction and composting. Presentations, hands on demos, educational material.	Sq, PA, Cr, CF, QV, QTS	WSU ext.	Meggan Uecker, 360-417-2279 muecker@co.clallam.wa.u
K-8	WSU Extension 4-H Program. Project-based experiential STEM learning.	PT	WSU ext.	Sue Hay, 360-379-5610 x 208 sue.hay@wsu.edu
K-12, youth	Special programs. Marine science programs designed for individual classes i.e., plankton tows, touch tanks and beach seines.	Sq, PA, Cr, CF	Feiro	Rachele Brown, 360-417-6254 racheleb@feiromarinelifecenter.org
3-12	Hands-on learning about marine issues while sailing the <i>Adventuress</i> .	PT, Sq, PA, Cr, CF	SE	Amy Kovacs 360-379-0438 amy@soundexp.org

*These programs provide hands-on learning opportunities focusing on STEM related topics and encourage students to develop problem solving and critical thinking skills while having fun. They include both class visits and field investigations, and several of the programs have been aligned with the Common Core and Next Generation Science Standards (CC/NGSS).*

### EDUCATIONAL OUTREACH ORGANIZATION

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| CCEH - Clallam County Environmental Health | NOSC - North Olympic Salmon Coalition           |
| CPA - City of Port Angeles                 | OCNMS - Olympic Coast National Marine Sanctuary |
| DRAC - Dungeness River Audubon Center      | ONP - Olympic National Park                     |
| Feiro - Feiro Marine Life Center           | PTMSC - Port Townsend Marine Science Center     |
| JST - Jamestown S'Klallam Tribe            | SE - Sound Experience                           |
| NB - NatureBridge                          | WSU ext - Washington State University Extension |

### SCHOOL DISTRICTS:

- CF - Cape Flattery School District
- Ch - Chimacum School District
- Cr - Crescent School District
- PA - Port Angeles School District
- PT - Port Townsend School District
- QTS - Quileute Tribal School
- QV - Quillayute Valley School District
- Sq - Sequim School District

# K-12 Programs

**Animals**
 **Water & Fish**
 **Plants**
 **Pollution**
 **Ecosystems**

GRADE	PROGRAM	CC/NGSS	SCHOOL DISTRICT	ORG.	CONTACT INFORMATION
K-5	FIN and Fun! General salmon education. 25-foot fish with mural inside.		PT, Sq, PA, Cr, CF, Ch	NOSC	Reed Aubin, 360-379-8051 · Raubin@nosc.org
K-5	Storytelling/puppet show supplement to Fin visit. Class visit.		Libraries, elem. schools	NOSC	Reed Aubin, 360-379-8051 · Raubin@nosc.org
K-12	Ocean stewardship though marine science and field investigation	✓	CF	OCNMS	Nicole Harris, 60-457-6622 ext 19 · nicole.harris@noaa.gov
K-12	Introduction to Invertebrates		PT, Sq, PA, Cr, CF	PTMSC	Chrissy McLean, 360-385-5582 ext 109 · cmclean@ptmsc.org
K-12	Beach Investigation		PT, Sq, PA, Cr, CF	PTMSC	Chrissy McLean, 360-385-5582 ext 109 · cmclean@ptmsc.org
K-12, youth	Field investigation at restoration projects		PT, Sq, PA, Cr	JST	Neil Harrington, 360-681-4634 · nharrington@jamestowntribe.org
K-12, youth	Residential field science school		Sq, PA, Cr	NB	Jen Kidder, 360-928-3720 ext 14 · jkidder@naturebridge.org
1	Insects, 90 min. Using scientific tools to observe insects in the air, water, and soil along trails at the visitor center.		PT, Sq, PA, Cr, CF	ONP	Dean Butterworth, 360-565-3146 · dean_butterworth@nps.gov
2	Bird of the month, 4 sessions. Class visit		PT, Sq, PA	DRAC	Tom Butler, 360-681-4076 · rceducation@olympus.net
2	New Plants, 90 min. Using scientific tools to investigate how plants reproduce.		PT, Sq, PA, Cr, CF	ONP	Dean Butterworth, 360-565-3146 · dean_butterworth@nps.gov
2	Botany education. Class visit		Sq, PA, Cr, CF	WSU ext.	Lorrie Hamilton, 360-565-2679 · lhamilton@co.clallam.wa.us
3	Mammal of the month, 4 sessions. Class visit		Pt, Sq, PA	DRAC	Tom Butler, 360-681-4076 · rceducation@olympus.net
3	Silt, Sand, Pebbles (Hurricane Ridge), 3 hrs. Students visit Hurricane Ridge to study rocks, sort sediments, and view awesome geology from the trails.		PT, Sq, PA, Cr, CF	ONP	Dean Butterworth, 360-565-3146 · dean_butterworth@nps.gov
3-5	Talking Trash: Problems of too much trash, how to reduce it & recycle the rest		Sq, PA, Cr, CF	CPA	Helen Freilich, 360-417-4874 · hfreilich@cityofpa.us
3-5	Cautions and warning-learning about the danger of household chemicals, how to read labels, and how to choose safer alternatives		Sq, PA, Cr, CF	CPA CCEH	Helen Freilich, 360-417-4874 · hfreilich@cityofpa.us Jennifer Garcelon 360-417-2347 · jgarcelon@co.clallam.us
3-12	Inquiry Into Barnacles		PT, Sq, PA, Cr, CF	PTMSC	Chrissy McLean, 360-385-5582 ext 109 · cmclean@ptmsc.org
3-12	Tails to Scales		PT, Sq, PA, Cr, CF	PTMSC	Chrissy McLean, 360-385-5582 ext 109 · cmclean@ptmsc.org
3-12	Crab Lab		PT, Sq, PA, Cr, CF	PTMSC	Chrissy McLean, 360-385-5582 ext 109 · cmclean@ptmsc.org
4	Ecosystem Olympic, 90 min. Rangers visit classrooms to introduce students to the three main ecosystems of Olympic National Park.		PT, Sq, PA, Cr, CF	ONP	Dean Butterworth, 360-565-3146 · dean_butterworth@nps.gov
4	(NOW) System for survival, marine debris impact. Class visit, field investigation	✓	Sq, PA, Cr	Feiro, ONP, OCNMS	Rachele Brown, 360-417-6254 · racheleb@feiromarinelifecenter.org
4 & 5	Watershed monitoring, 2 sessions. Class visit		Sq, PA	DRAC	Tom Butler, 360-681-4076 · rceducation@olympus.net
4-6	Ocean Science –marine debris survey and field investigation	✓	CF	OCNMS, Feiro	Nicole Harris, 60-457-6622 ext 19 · nicole.harris@noaa.gov
4-12	Plankton Lab		PT, Sq, PA, Cr, CF	PTMSC	Chrissy McLean, 360-385-5582 ext 109 · cmclean@ptmsc.org
4-12	Gray Whales		PT, Sq, PA, Cr, CF	PTMSC	Chrissy McLean, 360-385-5582 ext 109 · cmclean@ptmsc.org
4-12	Birds of Shore and Sea		PT, Sq, PA, Cr, CF	PTMSC	Chrissy McLean, 360-385-5582 ext 109 · cmclean@ptmsc.org
4-12	Introduction to Marine Mammals		PT, Sq, PA, Cr, CF	PTMSC	Chrissy McLean, 360-385-5582 ext 109 · cmclean@ptmsc.org
4-12	Herring Dissection		PT, Sq, PA, Cr, CF	PTMSC	Chrissy McLean, 360-385-5582 ext 109 · cmclean@ptmsc.org
5	(NOW) We all live in a watershed. Class visit & field investigation	✓	Sq, PA, Cr	Feiro, ONP, OCNMS	Rachele Brown, 360-417-6254 · racheleb@feiromarinelifecenter.org
5	Whales of the Salish Sea		PT, Sq, PA, Cr, CF	PTMSC	Chrissy McLean, 360-385-5582 ext 109 · cmclean@ptmsc.org
5-12	Beach Seine		PT, Sq, PA, Cr, CF	PTMSC	Chrissy McLean, 360-385-5582 ext 109 · cmclean@ptmsc.org
6 & HS	Park Stewardship. Field investigation		Sq, PA	DRAC	Tom Butler, 360-681-4076 · rceducation@olympus.net
6-8	Macroinvertebrates, H <sub>2</sub> O quality. Class visit and/or field investigations.		PT, Sq, PA, Cr, CF, Ch	NOSC	Reed Aubin, 360-379-8051 · Raubin@nosc.org
6-8	Sunfield Mariners learn about sailing and water science at Northwest School of Wooden Boatbuilding		Ch at Sunfield School	WSU ext.	Sue Hay, 360-379-5610 x 208 · sue.hay@wsu.edu
6-8	Restoration science, servc. learning, tree planting. 3 class visits, 1-3 field invest.		PT, Sq, PA, Cr, CF, Ch	NOSC	Reed Aubin, 360-379-8051 · Raubin@nosc.org
7 & 8	Watershed week. Field investigation		Sq, PA	DRAC	Tom Butler, 360-681-4076 · rceducation@olympus.net
8	Elwha sediment modeling, 90 min. Class visit		PT, Sq, PA, Cr, CF	ONP	Dean Butterworth, 360-565-3146 · dean_butterworth@nps.gov
8-12	Inquiry and the Scientific Process		PT, Sq, PA, Cr, CF	PTMSC	Chrissy McLean, 360-385-5582 ext 109 · cmclean@ptmsc.org
9-12	Environmental leadership, restoration practice, natural resources. Field investigation, semester class.		Sq (active) PA, Cr, CF (planned)	NOSC	Reed Aubin, 360-379-8051 · Raubin@nosc.org
9-12	Puget Sound Voyagers 4-H members. Learn to sail and make sails at NSWB*		Ch, PT	WSU ext.	Sue Hay, 360-379-5610 x 208 · sue.hay@wsu.edu
9-12	Community Boat Project 4-H. Learn boat building and sailing skills at NSWB*		Ch, PT	WSU ext.	Sue Hay, 360-379-5610 x 208 · sue.hay@wsu.edu
HS, seniors	Environmental leadership, senior project		PT, Ch, Sq, PA, Cr, CF	NOSC	Reed Aubin, 360-379-8051 · Raubin@nosc.org