

EXPLORING ECOLOGY

A Home School Day Event



**Friday, March 16, 2012
10:00 am to 4:00 pm**

**\$20 per student
Pre-registration Required**

Pre-K - 1st Grade Programs

Estuary Investigation- Learn how all waterways are connected as we explore the Yaquina Bay Estuary. Discover the unique creatures that call this place home and the challenges they are facing. *Boots and raingear strongly recommended.*

Ooey Goey Guts- Discover food webs and ecology with this hands-on program that will have you sorting through simulated stomachs to see what various marine animals feed on and how they are all connected.

Shorebird Survival- Learn about the adaptations shorebirds have for surviving in an often harsh environment as we build-a-bird in this fun and engaging program.

2nd - 4th Grade Programs

Estuary Investigation- Learn how all waterways are connected as we explore the Yaquina Bay Estuary. Discover the unique creatures that call this place home and the challenges they are facing. *Boots and raingear strongly recommended.*

Shark Tooth Inquiry- Uncover the diversity of sharks as we sift through sand to locate teeth from various species. Examine the teeth, make predictions about what they eat, and try to match them to the correct shark species.

Bizarre Behaviors- Discover the unique creatures of the rocky intertidal and the often bizarre ways they survive in this rough environment. Watch them at their strangest and learn why they do what they do!





5th - 7th Grade Programs

Estuary Investigation – Discover estuaries and the critical habitat they provide as we investigate the Yaquina Bay and the creatures that depend on it for their survival. Learn about current research and collect data which may help scientists answer some important questions. *Boots and raingear strongly recommended.*

Squid Dissection- Investigate the external and internal anatomy of squid while studying how these invertebrates are adapted for life in the sea. Students will also learn how to use dissection tools and proper dissection techniques.

Bizarre Behaviors- Explore the unique creatures of the rocky intertidal and the often bizarre ways they survive in this rough environment. Watch them at their strangest and learn why they do what they do!

8th - 12th Grade Programs

Estuary Investigation – Discover estuaries and the critical habitat they provide as we investigate the Yaquina Bay and the creatures that depend on it for their survival. Learn about current research and collect data which may help scientists answer some important questions. *Boots and raingear strongly recommended.*

Fish Dissection- Explore the external and internal anatomy of various bony fish species while gaining a better understanding of the purpose of various organs. Students will discover how data is collected by researchers and used to manage fish populations.

Deep Sea Denizens- Delve into the amazing world of deep sea fishes and their bizarre biology as we examine real specimens then create and classify our own unique species.

Professional Development is available for Home School Educators from 10:30 am to 2:30 pm at a cost of \$15 per participant. Engineering Solutions for Sea Lion Research: A Marine Science and Engineering Curriculum is based on OSU research on Steller sea lions. This curriculum for 6th-12th grades teaches about remote monitoring technology (telemetry), the biology and ecology of sea lions in Alaska, and how engineers develop solutions to science problems with hands-on engineering activities. It incorporates ocean literacy principles, science inquiry and engineering.

Additional Activities for All Ages

- ▶ Tour the HMSC Visitor Center exhibits and touch tanks
- ▶ Try out special marine themed crafts and games

Registration begins January 3, 2012

For a registration form, visit our website at:

<http://hmsc.oregonstate.edu/visitor/education-programs/homeschool>