4th Grade Field Days at BBR—October 2008

Field Day 1—Sense of Place—September 23 & 25

9:00 – 9:45 or 12:00 – 12:45—Inside

- Calculate map scale on several WA maps
- Learn how to use macro setting of digital camera

9:45 – 10:45 or 12:45 – 1:45—Outside

- Map specific BBR sectors
- Collect leaf samples from tagged trees & shrubs
- Photograph trees & shrubs

10:45 – 11:15 or 1:45 – 2:15—Inside

- Use field guides and collected and laminated leaves to classify trees and shrubs

Field Day 2—What's Out There? I—September 30 & October 2

9:00 – 9:25 or 12:00 – 12:25—Get socks & boots on and walk to Waterfront Park

9:25 – 10:30 or 12:25 – 1:30

Session A—Macroinvertebrates in the Wenatchee River

- Wade into a shallow area near the middle of the river in boots
- Use kick nets to uncover insects in the gravelly substrate
- Use forceps to place animals in observation trays

Session B—Document discoveries with a digital camera in a scavenger hunt

- ✓ Plants, algae, and fungi
- ✓ Animal remains (e.g. scat, tracks, bones, feathers, nests)
- ✓ Insects
- ✓ Other animals (e.g. mammals, birds, fish, spiders)

10:30 – 11:15 or 1:30 – 2:15—Return to Barn to study live macroinvertebrates

- Observe macroinvertebrate characteristics under flex-cam
- Use interactive (Internet) dichotomous key to classify macroinvertebrates

Field Day 3—Getting to Know Your Watershed—October 7 & 9

9:00 – 9:55 or 12:00 – 12:55—Inside the Barn

- Use leaf characteristics to create a dichotomous key for trees & shrubs
- Watch pH demonstrations and learn about the pH scale

10:00 – 11:10 or 1:00 – 2:10—Outside on the beach below the Barn

Session A—Stream ecology

- Identify riparian zone
- Build a watershed model to understand non-point pollution
- View river bed and salmon spawning through an underwater camera

Session B—Water Quality Testing

- ✓ dissolved oxygen
- ✓ pH
- ✓ temperature
- ✓ turbidity

Field Day 4—What's Out There II—October 14 & 16—at Blackbird Island

Session A—Observe salmon spawning on the Wenatchee River

- Survey river habitat
- Use binoculars and spotting scopes to observe fish behavior above water
- Record observations and impressions in journal pages

Session B—Learn about native, riparian, broadleaf trees & shrubs in Waterfront Park

- Use a dichotomous key to identify several species of tree/shrub
- Use leaf characteristics vocabulary to describe and draw a leaf

Session C—Introduction to Telemetry for monitoring fish populations

Field Day 5—Using Tools of the Poet, Visual Artist, and Scientist to Investigate and Describe the Natural World—October 21 & 23

Session A—Visual art inside River Haus and outside on sidewalks (40 minutes)

- Review activities at BBR field days and remember favorites
- Plan a chalk picture to represent favorite activities
- Create works of art on paper and on the new sidewalks

Session B—Inside the Barn (40 minutes)

Observe and record characteristics of nine captive vertebrates and invertebrates

- ✓ Hissing cockroach—insect
- ✓ Goldfish (Koi)—fish
- ✓ Guinea pig—mammal
- ✓ Leopard gecko—reptile
- ✓ Rose-haired tarantula—spider
- ✓ Fire-bellied toad—amphibian
- ✓ Red-eared slider (turtle)—reptile
- ✓ Giant millipede—arthropod
- ✓ Gopher snake—reptile

Session C—Inside the Barn (40 minutes)

- Use stereoscopes and photo ID cards to classify live macroinvertebrates (20 minutes)
- Write haiku about experiences with living organisms at BBR (20 minutes)