

'Get Outdoors' GO! Program Landmark's Fantastic Fourth Graders!!!

Look at what we learned during
The 2008-2009 school year!

Migration Headache Game

- ✎ Students learn the importance of wetland function in relationship to bird migration, habitat preservation and water quality
- ✎ Students become "birds" and migrate to summer and winter grounds represented by large laminated wetland cards
- ✎ Back side of some cards depict habitat impacts such as development, pollution, agriculture & natural disasters
- ✎ Students discover what happens to migratory birds when their habitat is eliminated
- ✎ "Birds" "fly" back and forth between summer and winter grounds
- ✎ Some birds "die" when they have nowhere to land
- ✎ Follow up discussion leads to positive ideas for habitat protection



Enviroscape 3D Watershed Model

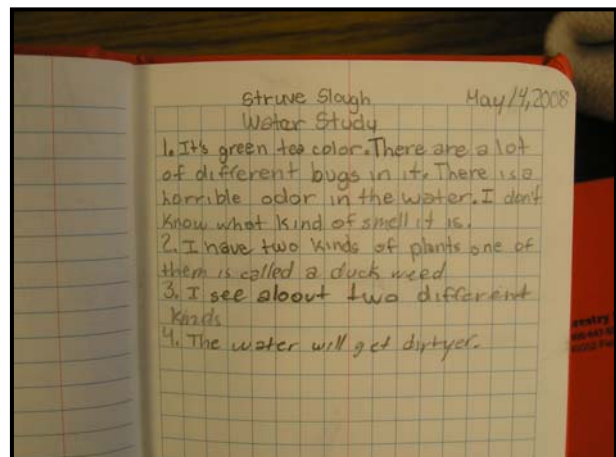
- 👉 Interactive model teaches about watersheds, erosion, pollution & preventative measures to point source & non-point source pollution problems



Struve Slough Water Study

Rotational stations that included:

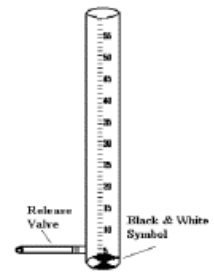
- 👉 Trays of water with benthic macro invertebrates (BMI), slough flora (cattails, horsetail, watercress) & BMI ID cards, poster and magnifying glasses
- 👉 Compound microscopes with slough water slides, stereo microscope with caddis fly larvae casing and Petri dish with BMI
- 👉 Trays of water and fish tank of slough water with BMI identification cards.
- 👉 Students answered questions & drew observations



Water Quality Monitoring

Parameters included:

- 👉 Air and water temperature
- 👉 pH
- 👉 Electrical Conductivity
- 👉 Dissolved Oxygen
- 👉 Transparency
- 👉 Stereo microscopes (in class) to study duckweed & ceriodaphnia



pH Experiment to compare acidic and basic liquids

- 👉 8 liquids compared: distilled water, tap water, soda, vinegar, laundry soap, lemon juice, kitchen cleaner, baking soda and 2 mystery liquids
- 👉 Predictions made, results tabulated, graphing



Electrical Conductivity Experiment

- ✎ Demonstrates the ability of varying waters to conduct an electric current
- ✎ Waters utilized: Struve Slough, tap and salt water
- ✎ Electrical conductivity review, instructions, discussion and predictions occurred prior to experiment



The Layered Jar

Waves, Wetlands and Watersheds curriculum

- ✎ Continued theme of sediment, watersheds, erosion & water systems
- ✎ Teaches how sediment loads affect water quality

Tar Plant Hill - Field trip

Watsonville Wetlands Watch

Students learned about:

- ✎ Native/non-native plant species
- ✎ The endangered Tar Plant
- ✎ Habitat restoration
- ✎ Plant identification of the local community
- ✎ Students assist with habitat restoration by removing non-native plant species

