Wetland and Water Activities & Resources for Educating and Engaging Youth

HWR Wetland/Water Quality Curriculum (4th-8th grade focus)

- Life Downhill (model demonstration of what happens to our water resources downhill from non-point source pollution)
- Broken Water (hands-on demonstration of how a wetland works as a filter)
- Journey to the Bottom of the Pail (macroinvertebrates study/biotic index)
- Wetland Equation (hands-on demonstrations that explain what makes a wetland a wetland)

Life Downhill

- Enviroscape model
- Powder Tempera paints variety of colors
- Watering can/mister

You can also find resources on how to make your own model in Project WET, WOW (The Wonders of Wetlands.)

Various models can be purchased from the following suppliers:

- Nature Watch (<u>www.nature-watch.com</u>)
- Carolina Biological Supply Company (<u>www.carolina.com</u>)
- NASCO Science (www.eNasco.com/science)









Broken Water

- Glass Pyrex liquid measuring cup
- Strainer
- Sponges
- Cheese cloth
- Moss
- > Vegetable oil/water mix Simulates motor oil
- Peppermint flavor & red food coloring mix Some pollution you can only smell and some you can only see
- Dirty water mix Simulates construction run-off
- > All "pollutant" mixes in one container











Journey to the Bottom of the Pail

- Dishpans
- Ice Cube Trays
- > Tweezers
- > Eye Droppers
- > Microscopes
- Petri dishes
- > Bug boxes
- Key to Macro invertebrate Life in the River Poster
- Water sample from local pond, lake, river, etc.











Wetland Equation

SOIL + WATER + PLANTS = WETLAND

Needed materials include:

- Sandy soil demonstration
- Clay bowl
- Wetland soil
- Wet sponge
- Sphagnum moss
- Wetland cornucopia demonstration
- Dirty water

Water Quality Testing



Hach Kits

(HWR uses with high school/college students) (Also used in the Watershed Tour Education Trunk -"Chemistry Set" Station.)

 LaMotte Green Water Monitoring Kit (HWR uses with 4th-8th grade students)



HWR Resources Available for Youth Educators

WERC (Watershed Education Resource Center) site – provides water quality testing & monitoring equipment, storm drain stenciling materials, pond study equipment, etc. for checkout

> Teaching kits and trunks

- The Watershed Tour
- Alien Invaders

All resources available for checkout are free, but require a \$50 security deposit.

The Watershed Tour

Station topics include:

- Groundwater
- Watersheds
- Benthic Macro-invertebrates
- Water quality testing
- Waterfront development and its affects (pollution, etc.)
- Water conservation
- Wetland delineation
- Water cycle game









Alien Invaders

Clean Boats, Clean Waters

- Use model boats/trailers/vehicles to practice finding aquatic plants on boats, trailers, and vehicles.
- > Aquatic Invasive Animals
 - Fishing activity to fish out the invasive animals/fish
- Aquatic Invasive Plants
 Card identifying/matching game (match picture with text)

Questions?



Heckrodt Wetland Reserve 1305 Plank Road P.O. Box 554 Menasha, WI 54952 920-720-9349 www.heckrodtwetland.com

Heather Weigelt – Education Coordinator/Naturalist heckrodtwetland.heather@tds.net