

Materials List:

Rivers, Lakes, and Water Quality Unit

The materials needed for this unit are presented in chronological order as the order progresses. Many lab activities can be presented as demonstrations if you are short on equipment.

- 1.) Computer that runs Powerpoint.**
- 2.) LCD Projector (For Classroom Teachers)**
- 3.) Powerpoint remote for advancing slides (Recommended! - Unit has 2200+ slides)**
- 4.) realPlayer for videos**
<http://www.real.com/realplayer/search>
- 5.) Marbled Science Journal (Class Set)**
- 6.) Map of the United States with Rivers (Optional)**
- 7.) Class set of white paper (Small Posters) and selected colored pencils (blue, green brown) and black permanent markers and tape.**
- 8.) Table groups: Large tray, sand, water, and siphon tubes / buckets (Containers with hole on bottom and meters sticks to lay across stream table work as well) for stream table. Scoop container for recycling water to the top.**
- 9.) Waterway**
- 10.) Water Quality Assessment Kit (can be found at www.lamotte.com)**
- 11.) Physical Data: Thermometers, tennis ball, Seechi Disk (Optional), Meters Sticks, stop watch.**

- 12.) Biological Data: Kick net for collection of benthic macro-invertebrates, trays, water, tweezers, containers, provided identification sheet.**
- 13.) Chemical Data: Color changing test tabs work well for various chemical tests.**
- 14.) Wetland vs. Urban Activity: Class set of glass slides, eye droppers, paper towels, textbooks, water.**
- 15.) Flood Proposal Project: Works well as a demonstration. Stream Table from before with Monopoly houses for town, water, containers for recycling water.**
- 16.) Levee Project: Class set of computer access and Powerpoint (Optional), overheads work as well.**
- 17.) Recommended Video (Dams on Modern Marvels) purchase on Amazon for under 15.00 Dollars.**
- 18.) Salmon Simulation: Open space, foam balls, jump rope, cardboard boxes, hula-hoops, food cards, (Optional high jump bar and mat) + whole class.**
- 19.) Identifying Fish Activity: Class set of Swedish Fish**
- 20.) Lake Turnover – Frozen Ice Cubes with blue food coloring (Class set) and clear containers with water.**
- 21.) Layering in a Lake: Large clear containers (Soda bottles with tops cut off / Table Groups) blue food coloring, red food coloring, ice cubes.) Petri-dish, tweezers, and hot water.**