**CULMINATING EVENT: Reelfoot Lake Environmental Field Station Field Trip**

Students will end this lesson by taking a field trip to Reelfoot Lake. The UTM Reelfoot Lake Environmental Field Station is set up to provide small group instruction, experimentation, and lake trip experiences. Depending upon the activities, groups of 10 – 40 could be accommodated. The larger the group, the more adult supervision and “other” activities may need to be built into such a trip. The best place to start is by contacted Dr. Tom Blanchard, Director of the field station. (See PBL for contact information.)

Experimentation and observations made during this event. Students can collect, organize, and analyze data, and then share their research methods and results. Data collected can include:

* 1. Dissolved oxygen and temperature
  2. Productivity (biological oxygen demand)
  3. pH
  4. Secchi depth
  5. Plankton
  6. Zooplankton levels
  7. Macro-invertebrates comparison to index of water quality

**CAPSTONE PRESENTATION:** Students can share research results through a public presentation at their school, sharing with their classmates the importance of the quality of water on Reelfoot Lake, the biological functions of the watershed area, and even the economic aspects of the lake.