

LESSON PLAN

Robert Filler – Tavares Middle School, Tavares, FL

- Lesson Title:** School Yard Runoff- Long Term Study
- Grade Level:** Middle School/High School
- Topic:** What are the long term effects of storm water runoff from a school campus on surrounding bodies of water?
- Time Required:** Multiple class periods during the year.
- Objectives:** Students will:
- 1) Develop skills in sampling, testing, and data collection
 - 2) Organize and analyze data
 - 3) Predict the effects on the environment
 - 4) Observe results of long term predicted effects. (if possible)
- Materials:** Same as in “School Yard Runoff”
Computer for data collection and display
- Procedure:**
- 1) Collect data using the “School Yard Runoff” activity.
 - 2) Collect data throughout the school year.
 - 3) If possible, do same tests as “School Yard Runoff” on a regular schedule at the closest permanent water body to the school campus.
- Data:** Data sheets stored in the computer to generate spreadsheets, charts, graphs, etc.
- Questions:**
- 1) Are the predictions in “School Yard Runoff” supported? Why or Why not?
 - 2) What factors could impact the data and results?
 - 3) What are the results of long term runoff from the school campus?
 - 4) What can be done to minimize the impact of school yard runoff?
 - 5) How can the results of this study be used by the community in planning for future development?
- Extended Activities:**
- 1) Visit the local Planning/Development Board to see how the local government deals with environmental impact on future development.

- 2) **Develop a model for planning new school construction to minimize runoff impact on the environment.**
- 3) **Using the World Wide Web (www), explore how other communities are addressing this problem.**