**Water Quality and Issues**

**Lesson plan:**

*Fundamental questions to answer: What is quality water? How can quality be defined using a set standard of tests? How do farming, lawn care and other issues contribute to water quality?*

**Goals to accomplish:** (DMACC and DMPS)

Identify environmental issues related to water resources.

1. Examine the hydrologic cycle.

2. Discuss human use of aquatic systems, including impacts.

3. Identify sources and types of water pollution and related toxicology.

4. Identify sources and types of water pollution and related toxicology.

5. Assess problems of water supply and quality, and propose solutions to address these problems.

**Materials:**

* Vernier kits
	+ Main base unit
	+ Probes
		- Dissolved oxygen
		- Turbidity
		- Temperature
		- pH

In addition to the tests related directly to water quality students are asked to conduct other tests with the Vernier kits with the goal of simply getting use to handling the equipment. These tests would include:

* Conductivity
* UVB
* CO2
* Light
* Relative Humidity
* Soil Moisture