Standards and developing rubrics for assessments. You will implement question writing techniques based on Webb's Depth of Knowledge as used by the MDE.

As a participant of this workshop you will work at discovering and utilizing a “water exploration lab” that you will receive and that is designed to engage your students in hands-on, active-learning experiments and observations involving laboratory data gathering, interpretation, analysis, and summary. Time will be allocated for lesson preparation utilizing grade level standards with your “water exploration lab”.

Minnesota Academic Science Standards will be provided, and participants will be required to bring their school’s science curriculum as it pertains to this topic and a computer or tablet to research and develop lesson plans utilizing equipment and content presented at workshop.

Workshop Instructors

- Dr. Vernon Cardwell, Ph.D., retired Professor of Agronomy, University of Minnesota
- Crystal Reith, Youth Development Coordinator, University of Minnesota Extension
- University of Minnesota SWROC and Extension K-12 Education Team

Fees, Stipends & Other Benefits

- $50 returnable registration deposit - returned after attending class.
- Stipend of $150 for each 5 days attended - total of $300 for entire workshop.
- Mileage paid at half the allowable government rate with carpooling encouraged.
- Lodging and a $15 daily meal allowance provided for participants commuting more than 100 miles from SWROC and who wish to stay in the area - SWROC will assist you with finding lodging.
- Lab equipment and other resources and materials for participants to take back to their own classrooms provided.
- Meals and snacks provided daily.

Credits & CEUs

- A tuition waiver for three graduate credits offered from the University of Minnesota is offered to course participants. Receiving graduate credit involves a 2-4 page reflective paper as well as attending the course.
- 60 CEUs

Hear ITQ participants Shelly & Trista share their experiences! Visit:
http://youtu.be/k_p4GW5SLsU

For more information on ITQ, visit:
http://swroc.cfans.umn.edu/k12/itq
These sessions are supported by an Improving Teacher Quality Grant from the Minnesota Office of Higher Education in cooperation with the University of Minnesota Southwest Research & Outreach Center.

**IMPROVING TEACHER QUALITY**

**Water Exploration: Watersheds, Water Quality, & Water Analysis**

**June 13-16, June 28-30, July 12-14**
(Workshop is a total of 10 days over three sessions)

**Target Audience:**
K-12 Science Teachers

**Location:**
University of Minnesota Southwest Research & Outreach Center
Lamberton, Minnesota
(Located 3 hours southwest of the Twin Cities)

**University of Minnesota Southwest Research & Outreach Center**
23669 130th St.
Lamberton, MN
Phone: 507-752-7372
Fax: 507-752-5097
http://swroc.cfans.umn.edu

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Printed on recycled and recyclable paper with at least 10 percent postconsumer waste material.

**Additional registration forms can be found online at** http://swroc.cfans.umn.edu/k12/itq **or by contacting Gretchen Thillen at gthillen@umn.edu or 507-752-7372.**