

SEEING

The Science
& Mathematics
of Perception

Workshops for Teachers 6th–12th Grade

Join us at Exploratorium, the internationally acclaimed museum of science, art, and human perception, for a week of hands-on explorations that will transform how you look at science teaching and learning. Seeing: The Science and Mathematics of Perception explores the physics, biology and mathematics of light, color, vision, and perception. The museum's unique exhibits combined with classroom activities developed by the Exploratorium Teacher Institute will serve as the foundation for the workshops. You will learn how to literally bring the Exploratorium's approach to science education to your students. The session will be co-taught by Exploratorium Teacher Institute staff scientists and science educators who are eager to help people nurture their curiosity about the world around them.

For over 25 years, the Exploratorium Teacher Institute has used the study of human perception as a key part of our teacher professional development program. We use the study of perception to demonstrate the power of inquiry learning and personal discovery to strengthen understanding of science and mathematics. Explicit connections will be made to basic concepts in physics, biology, and mathematics so that teachers can literally bring these activities to students in whatever courses they teach.

This workshop will be presented twice. Monday, July 27 – Friday, July 31, 8:30 a.m. to 2:00 p.m. and Monday, Aug. 3 – Friday, Aug. 7, 12:00 p.m. to 5:30 p.m. The cost of each workshop is \$1,000. Location: Exploratorium, San Francisco, CA

Workshop includes:

- **Daily continental breakfast or snacks**
- **Materials and hand-outs**
- **Museum entry**
- **Access to Teacher Institute Alumni Resources, including library privileges and permission to join various listservs and on-line tools.**
- **Tactile Dome entry**
- **Academic credit available for an additional fee**

Following this summer workshop, you'll be considered a TI alumnus and be invited to attend Saturday sessions during the academic year that are only made available to alumni like you. These sessions focus on specific topics in science and mathematics that are always explored through inquiry and hands-on investigations.

The TI's Web site at www.exploratorium.edu/ti contains additional information about our program as well as examples of classroom tested activities we have developed.

