



Interactions in the Sciences: *Observe, Investigate, Explain*

Explore how cycles, processes and systems
connect life, physical and earth science

July 6-9 & July 12-16
(9 Day Institute)

Explore the diverse ecosystems of the Cape and South Shore. Investigate the interconnections between living systems, earth systems, and their physical and chemical features. Why are the tiniest microbes and plants in the ocean important? Participants will draw on their knowledge of ecosystem pyramids and cycles to gain a better understanding of how energy flows and matter and nutrients cycle through the marine ecosystem. Explore geological sites and learn how to read our local landscape to reveal the time line of Earth's history. Specific topics will include fossils, rock cycles, glaciation and erosion. How do systems and processes in the ocean influence the life of a sea turtle? Simulate a swim through the life of sea turtle: hatch, migrate, and return to your natal beach to lay eggs in your own nest. Examine how ocean resources and the water cycle have benefited the people of Cape Cod throughout history. Discover how Cape Codders have used ocean water in the salt making industry. Investigate how climate changes affect the ocean and its marine organisms. Field trips, group discussions, and hands-on activities will encompass ecology, geology, life sciences and oceanography. Bring home the tools and hands-on investigations to bridge all the sciences in your classroom.

A Unique Professional Development Opportunity

- Participate in a balance of indoor, classroom and outdoor experiences.
- Learn to use inquiry-based, hands-on methods in your classroom.
- Visit each site for 1-2 days and participate in both content and skill development sessions.
- Learn about educational resources in your community.
- Become part of a network of teachers from your region.
- Earn PDPs/ CEUs or PDPs and 4 graduate credits (for an additional cost).
- Take home a resource kit containing investigations and materials for your classroom!

Museum Institute for Teaching Science

Visit our website, email or
call for a brochure
or to register.

www.mits.org

mits@mits.org

Partners:



National Marine Life Center



Cape Cod Maritime Museum



OceanQuest, Inc.



South Shore Natural
Science Center

Cost: \$250/1 educator, \$225 each/2 educators, \$200 each/ 3 or more educators

Graduate Credit will be offered from Framingham State College and Cambridge College for an additional fee

Summer Institutes are offered in seven regions of Massachusetts and Southern New Hampshire