Resources for getting involved in education & outreach

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COSEE–Ocean Learning Communities
Mentoring

• Best practices for being a mentor
  • School mentoring
  • Fostering close mentoring relationships
  • Race & ethnicity of mentors
• Guidance and resources for starting mentoring programs in your communities

http://www.mentoring.org/
Identity formation

STRANDS OF INFORMAL SCIENCE LEARNING

STRAND 1 — Sparking Interest and Excitement
Experiencing excitement, interest, and motivation to learn about phenomena in the natural and physical world.

STRAND 2 — Understanding Scientific Content and Knowledge
Generating, understanding, remembering, and using concepts, explanations, arguments, models, and facts related to science.

STRAND 3 — Engaging in Scientific Reasoning
Manipulating, testing, exploring, predicting, questioning, observing, and making sense of the natural and physical world.

STRAND 4 — Reflecting on Science
Reflecting on science as a way of knowing, including the processes, concepts, and institutions of science. It also involves reflection on the learner’s own process of understanding natural phenomena and the scientific explanations for them.

STRAND 5 — Using the Tools and Language of Science
Participation in scientific activities and learning practices with others, using scientific language and tools.

STRAND 6 — Identifying with the Scientific Enterprise
Coming to think of oneself as a science learner and developing an identity as someone who knows about, uses, and sometimes contributes to science.

http://www.nap.edu/catalog.php?record_id=12614

http://www.nap.edu/catalog.php?record_id=11882
Forming connections to nature

- We teach too abstractly about the environment too early
- Form connections to the natural environment first, because people are disconnected from the places in which they live
- Could lead to interest in STEM fields
Understanding trends in STEM jobs
COSEE–OLC brochure

- Design from learning goals
- Consider partnering with an educator (teacher, College of Education, COSEE center)
- Encourage critical thinking
- Create multiple ways for people to engage with your work
- Include your own personal story
- Align your efforts with broader impacts proposals