Lesson Plan Workshop

The Scientific Research and Education Network

Lesson Plan Workshop

NEXT WORKSHOP:
SATURDAY, JANUARY 23
2:00-5:00 PM
DUKE MARINE LAB
BEAUFORT, NC

Register Now

Already registered for the Lesson Plan Workshop on January 23? Find out what to bring here.

What is the Lesson Plan Workshop?

The annual Lesson Plan Workshop is offered approximately one month before the annual SciREN events. The purpose of the workshop is provide researchers an opportunity to write a lesson plan with the guidance of experienced science educators. The workshop is aimed towards both new and returning SciREN participants and all researchers will complete a lesson plan by the end of the workshop.
In the first portion of the lesson plan workshop, researchers will learn about the thought process behind lesson plan preparation and how to connect their research to the NC essential standards and other national standards. The second part is dedicated to small group discussion between researchers and educators. This gives researchers a chance to discuss their research and their lesson plan ideas and determine how their work fits into the classroom curriculum at different grade levels. It gives educators the opportunity to form relationships with local researchers and guide researchers to writing lessons for their grade level. In the third part, researchers will use the ideas from their discussion with educators to actually write a lesson plan. Finally, the researchers and educators will break up into small groups and the educators will give the researchers feedback on their lesson plans. After writing their lesson plan, it is rare that researchers will find out if teachers actually use it in their classrooms, so this is a unique opportunity for researchers to get feedback directly from educators.

I’ve been to a previous Lesson Plan Workshop. Should I attend this year?

Yes, we strongly recommend that all researchers attend the Lesson Plan Workshop, even if they have participated in previous workshops. The workshop is intended to bring researchers through the entire process of lesson plan preparation, from the brainstorming stage to having a completed lesson plan. Whether you’ve written hundreds of lesson plans or this is your first time, the workshop will help you streamline the lesson planning process, while getting feedback directly from educators who could potentially use your lesson plans in their own classrooms.

SciREn Lesson Plan Materials

- Lesson Plan Writing Worksheet: use this to write your lesson plan
- Bloom’s Taxonomy of Measurable Verbs
- 5E Learning Cycle Documents
  - 5E Format Explained
The 5E Learning Cycle Model
- 5E Model: In Depth
- 5E Example Lesson Plan: Close Encounters of the Amphibious Kind
- Teacher Evaluation of Lesson Plan

SciREN Lesson Plan Resources

North Carolina State Standards (REQUIRED)
- Links to ALL NC Standards (Science and Math): http://www.ncpublicschools.org/curriculum/
- NC Engineering Connections: http://www.ncpublicschools.org/stem/resources/

National Standards
Common Core (REQUIRED MATH AND ENGLISH): http://www.corestandards.org/the-standards
  - Next Generation of Science Standards (NGSS): Crosscutting Concepts
- AASL 21st Century Learner Standards: http://www.ala.org/aasl/guidelinesandstandards/learningstandards/standards
- Climate Literacy Framework: http://www.globalchange.gov/browse/educators
- Ocean Literacy Framework: http://oceanliteracy.wp2.coexploration.org/
Example Lesson Plans Online

- Previous SciREN Lesson Plans on SciREN Portal: http://thesciren.org
- Smithsonian: http://ocean.si.edu/for-educators
- BRIDGE: http://www2.vims.edu/bridge/search/bridge1output_menu.cfm?q=lesson&Audience=school
- Duke Engineering Boeing Fellows: http://boeingfellows.pratt.duke.edu/make-it-happen-plans