Workshop 8.

Connecting Other Subjects to Inquiry

This program explores how to use subjects like mathematics and language to further scientific inquiry and understanding of science concepts, and conversely, how science can aid learning in other subjects. It also reiterates the benefits of learning science through inquiry and explores your "next steps" along the inquiry journey.

On-Site Activities and Timeline

Getting Ready

30 minutes

Share Homework (15 minutes)

In groups of two or three by grade level, share the samples of your students' work. Describe what the sample tells you about the student's science knowledge. What else does it tell you about his or her language, literacy, math, or art skills? How might you assess any of these skills more deeply?

Focus for Viewing (15 minutes)

This program looks at ways to connect other subjects to science inquiry. In your small groups, describe ways that you integrate science with other subjects in your classroom. What are your purposes? What are the challenges?

Watch the Workshop Video

60 minutes

Video Pause Point

Discuss the interdisciplinary approach shown in the video clips.

- How are math, art, language, and basic research skills used in service of the science inquiry?
- Perhaps these videos have inspired some ideas of how you might connect science to other subject areas in your classroom. Take a moment to share these ideas with one another.

Going Further

30 minutes

If you would like more time to discuss using an interdisciplinary approach in your science inquiry classroom, take the opportunity to do so now.

As a group, discuss your reactions to the concluding remarks of the panelists. Discuss your own next steps.

We've brought you together in a structured way, and have raised issues that look at how teaching science as inquiry changes the relationship between teacher and learner. Brainstorm ways you can keep this journey going—as an individual and as a group. It can be a challenge to maintain change by yourself—consider finding a partner in this group with whom you can practice and share inquiry strategies. Keep reflecting on your practice in your journals.

Final Assignments

Optional Assignment

If you have not already begun the **Implementing Inquiry** activities on the *Learning Science Through Inquiry* Web site, you may want to try them now. If you have begun, take what you have learned and begin new inquiry explorations in the classroom. Find a partner in your school or online so you can share your experiences and challenges. Go to www.learner.org/channel/workshops/inquiry, and click on **Implementing Inquiry.**

Reading Assignment

You will find the following assignment in the Appendix of this guide (pages A-106 through A-108), or you can find it at http://www.nsf.gov/pubs/2000/nsf99148/ch_13.htm.

- **End Paper: The Value of Knowing What You Do Not Know,** by Mark St. John

Find Out More

Go to www.learner.org/channel/workshops/inquiry and click on **Find Out More** for a list of monographs, essays, articles, and books that further explore the topics from this workshop.

Notes