

Workshop 5.

The Inquiry Continues: Collecting Data and Drawing Upon Resources

This program explores ways that inquirers collect and record first-hand data, just as scientists do, and observe, raise questions, make predictions, test hypotheses, and develop understanding. It also examines how other resources and outside expertise can help your students formulate patterns and relationships.

On-Site Activities and Timeline

Getting Ready

30 minutes

Share Homework (20 minutes)

Organize into groups by grade level to review homework. Share the upcoming event or lesson you plan to change to give students more of an opportunity to do inquiry. Share the description of your lesson plan.

Focus for Viewing (10 minutes)

As you watch the video, focus on how students use data and outside resources during their investigations to deepen their understanding. As a group, brainstorm the nature of the data students may collect, the strategies students may use to organize the information, and the range of resources that students may access to make connections and answer questions.

Watch the Workshop Video

60 minutes

Video Pause Point 1

Discuss the data collection you just saw in Chris Collier's classroom.

- How can you help students determine what data to collect?
- How can you help students determine ways to record the data?

Video Pause Point 2

- Discuss using outside resources in your classroom.
- What did you see in the videos that you liked?
- What seemed challenging?

Going Further

30 minutes

As a group, use the board or a flip chart to review the strategies you saw students use to collect and organize data. List other strategies you may have thought of. Then make a list of the key strategies you saw teachers use to guide data collection and use.

Discuss how the students in the video clips use data and resources to draw conclusions and deepen understanding.

For Next Time

Homework Assignment

During the week, please collect samples of your students' work in which they have recorded data or information from their direct experience or secondary resources. Reflect in your journal on how they used the data to inform their thinking. For the next workshop session, bring in a sample or two of your students' work to discuss with the group.

Reading Assignment

You will find the following assignment in the Appendix of this guide (pages A-70 through A-76), or you can find it at http://www.nsf.gov/pubs/2000/nsf99148/ch_10.htm.

- **Identifying Inquiry in the K-5 Classroom**, by Doris Ash and Barry Kluger-Bell

Handouts

You will find the following handouts in the Appendix of this guide:

- **Science Discovery Log**, by Charles R. Pearce (page A-77)
- **Inquiry Investigation Plan**, by Charles R. Pearce (page A-78)

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
