



*Investigate and
Understand:
Math and Science
by Inquiry*

*A Professional Development
Program for
Central Virginia Teachers of
Grades 3-8*

Sweet Briar College

June 28-July 2, 2004

Who is Eligible?

All Central Virginia grade 3-8 teachers.
50 teachers will be accepted into the
program.

What does the program entail?

A week-long (Mon-Fri) summer workshop
with follow-up sessions during the
academic year.

What do participants get?

IDEAS for doing inquiry-based and hands-
on science and math in the classroom...

Plus...

- Participating teachers may earn graduate level credit –or– continuing education points. Tuition is paid by the grant. No cost to the teacher or school.
- Participating teachers get a stipend for completion of the 2003-04 program.
- Participating teachers from collaborating school systems may also get materials and supplies for doing hands-on science and math in their classrooms.



• **NEW!** Participating teachers, identified by their school administration, will receive in-class assistance in implementing inquiry-based instruction in their classroom. An Instructional Support Specialist will travel to schools to provide assistance.

- During the program, lunch is provided each day in the Sweet Briar College cafeteria.

Teachers may choose to enroll in the project in one of two options:

Option A *As a graduate student* – the summer workshop will constitute a major component of a graduate course in science education; in addition students will attend a minimum of 3 additional Saturday workshops during the 2004-2005 academic year, and will have other course assignments and a final project. Teachers in Option A will receive 3 credits at the 600 level in science education. Teachers completing Option A will receive a \$400 stipend and tuition waiver (\$825 value).

Option B *For continuing education* – the summer workshop (30 recertification points) will be supplemented with a minimum of 2 additional Saturday workshops during the 2004-2005 academic year (10 recertification points). (Nine academic year workshops will be offered throughout the academic year. Participants are to attend a minimum of two.) Each participating teacher will be required to give a 10-15 minute presentation describing the classroom implementation including assessment of student learning outcomes at one Saturday workshop. Teachers completing Option B will receive a \$350 stipend and a tuition waiver (\$875 value).

Teachers in either Option will forfeit their stipend should they not fulfill their programmatic obligations. Stipends will not be pro-rated.

Program Options

How to Register

Mail the completed registration form to:
Jill Granger
SCHEV-NCLB Project Co-Director
206 Guion Science Center
Sweet Briar College
Sweet Briar, VA 24595

E-mail registrations must be complete!

Name: _____

School: _____

Grade: _____

School Address: _____

School Phone: _____

Home Address: _____

Home Phone: _____

E-mail: _____

Option A Graduate student Option B Continuing Ed.

The program will be filled on a first come first served basis – with the approval of the teacher’s school administration. Only 50 applicants will be accepted from the seven area public school divisions and private schools.

Questions about the program can be addressed to: Jill Granger, Project Co-Director at 434-381-6166, granger@sbc.edu; Hank Yochum, Project Co-Director at 434-381-6357 hyochum@sbc.edu, or Pam Simpson, Project Assistant at 381-6443.

Program Details

Summer Workshop: Participating Teachers will attend 10 academic sessions during the five day summer program. Topics cover the range of the Virginia Standards of Learning in the areas of science and math for grades 3-8. Teachers will learn to connect math and science together, and to connect math and science to the world around them. Instructional time will be 30 hours for the five day summer workshop.

Daily Schedule

First session 9:00 am to 12 noon;

Lunch provided Noon – 1:00;

Second session 1:00 pm to 4:00 pm.

The Summer Workshop will also include an optional tutoring session in basic math skills for those interested. This session will be held from 4:00 – 5:00 each day.

Academic Year Follow-Up: Participating teachers will be invited to attend topical workshops in science and math by inquiry held on Saturdays throughout the 2004-2005 school year. Teacher participants in Option A (graduate students) should elect a minimum of three of these Academic Year workshops. Teacher participants in Option B (continuing education) should elect a minimum of two of these Academic Year workshops. Academic Year workshops will consist of five instructional hours (which will include teacher presentations) and a lunch hour. Typically the Academic Year workshops will begin at 9:00 am and end at 3:00 pm.

During the Academic Year workshops, teacher participants will be giving 10-15 minute presentations on how they have used the workshop materials in their classrooms. Each participating teacher must make one of these presentations during the year. More information about the nature of the presentation (which will depend on the teachers’ participation status, Option A or B) will be given at the end of the summer workshop.

For scheduling flexibility, nine workshops will be scheduled throughout the year, approximately one per month. Participants in Option B earn an additional 5 hours toward continuing education for each workshop attended.

Program Details (continued)

Class Room Support: Participating teachers in this program are eligible to receive:

- Materials and Supplies for conducting math and science in their classrooms.
- The in-class assistance of an Instructional Support specialist.

The materials and supplies will be provided to teachers by their participating school system as matching funds to the grant. Collaborating schools have pledged \$150 per teacher in supplies and materials. Materials and supplies will be provided to supplement existing budgets in order to implement the new classroom inquiry lessons presented in the summer workshop.



New! An Instructional Support specialist (ISS) will be hired for the 2004-2005 school year to support participating teachers in their efforts to implement the new classroom inquiry lessons presented in the summer and Academic Year workshops. The ISS will travel among teacher participants throughout the 2004-2005 school year. Priority for scheduling among the teacher participants will be at the discretion of the school administrators. The ISS will have additional classroom supplies and materials, including equipment, to bring to the schools for student use.

Workshop for Administrators and

Instructional Leaders: In the early fall 2004, a one-day seminar will be held on the national call for more inquiry-based instruction and how this type of hands-on instruction can be used to differentiate instruction in the classroom. Academic leaders from the participants’ schools will be encouraged to attend.

**A detailed description of the project and specifics about the academic program can be found on our web site:
www.sxi.sbc.edu**