THE BSCS ADVANTAGE

BSCS SCIENCE: AN INQUIRY APPROACH

STUDENTS MAKE BIGGER GAINS IN GRADES 9 AND 10

THE RESEARCH STUDY*

- 4-year study of student achievement in high school science
- Students in grades 9 and 10
- 11 districts, 18 schools, 64 teachers, 4,105 students
- Randomized control trial design
- BSCS Program Group
  - Students received instruction with BSCS Science: An Inquiry Approach
  - Teachers received 7 days curriculum implementation support
- Comparison Group
  - Students received instruction with “Business as Usual” curriculum materials
  - Teachers participated in routine professional development

THE RESULTS

- Students receiving the BSCS science program had higher gains on standardized tests
- By the end of 10th grade, BSCS students were 4 months ahead of those in the Comparison Group
- The BSCS program helped teachers use more effective practices

THE BOTTOM LINE

THE COMBINATION OF RESEARCH-BASED CURRICULUM AND HIGH-QUALITY PROFESSIONAL DEVELOPMENT PRODUCED LARGER STUDENT GAINS IN SCIENCE
**THE DATA**

**Teacher Practice and Student Achievement**

Graph shows the difference in teacher practice and student achievement between business-as-usual classrooms and those using the BSCS science program.

**The BSCS Advantage**

After two years, students using the BSCS science program were about 4 months of learning ahead of students in business-as-usual classrooms.

**MAKING SENSE OF THE ANALYSIS**

BSCS Director of Research and Evaluation Dr. Joseph Taylor says, “These are exciting findings, and even so, they likely underestimate the true effectiveness because unlike the BaU teachers, the BSCS teachers were teaching a brand new program.”

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*THIS STUDY WAS SUPPORTED BY THE INSTITUTE OF EDUCATION SCIENCES (IES), GRANT #R305K060142, U.S. DEPT. OF EDUCATION.*

*The opinions expressed are those of the authors and do not represent views of the Institute or the U.S. Department of Education.*

Learn more about BSCS at bscs.org

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