

Archived Information

AEL

The Eisenhower Consortium for Math and Science at AEL Professional Development Cadre

The Consortium at AEL provides training and technical assistance through a cadre of trainers in each of its states. These highly skilled educators undergo extensive training on specialized resources identified or developed by key mathematics and science specialists at state Departments of Education in KY, TN, VA, and WV. The Cadre provides professional development on standards-based curriculum, assessment, and instruction to teachers across the states, including rural areas.

Access Centers

Regional educators can call on the Consortium at AEL for connections to regional and national resources and materials. Access Centers disseminate quarterly publications from the Eisenhower National Clearinghouse and provide places where teachers can receive training on how to use resource databases online.

Intensive Research Sites

To create a body of relevant research to improve the preparation of future mathematics and science teachers, the Consortium at AEL works with intensive research sites that include feeder schools at the elementary, middle, and secondary levels. Each school is provided with sustained professional development for teachers. A research partner from the Consortium meets with their mathematics or science faculty monthly to work on improving instructional strategies and to help raise student achievement. Using action research, faculty members analyze achievement test data so they can tailor instruction specifically to meet the needs of their students.

Evaluation Findings on Consortium Activities

41,876 clients were served through training and technical assistance activities since 1992

93% of the client contacts worked in schools or districts in which a majority of students were classified as "at risk"

97% indicated that the training and technical assistance were useful in meeting the needs of at-risk students

97% indicated that network-building opportunities offered through the Consortium Affected their work by leveraging and increasing access to resources

Free, Online Products

1) *Graphing Calculators in Middle Grades Mathematics: A Resource Guide for the Classroom and for Professional Development*, www.ael.org/calculator2/index.htm

2) *Graphing Calculators in Mathematics Grades 7-12*, www.ael.org/calculators/index.htm

3) *A Guide to Gender Fair Education in Science and Mathematics*, www.ael.org/equity

Future Plans

The Consortium will continue to serve the region through the programs outlined above. Planning sessions with local stakeholders will occur this year to keep our work focused on the goals most relevant in each state. A newsletter containing updates from all regional service providers is planned for Spring 2003.