

Alliance For Education Quality and Equity Program Modelo Alianza



The Alliance for Education Quality and Equity Program (Modelo Alianza) was designed and implemented by the Corporación Centro de Ciencia y Tecnología de Antioquia - CTA, by its Education work line, which aims to strengthening basic skills through math, language and research strategies, to students located in five municipalities in the southwestern region of Antioquia - Colombia (Jericó, Támesis, Tarso, Titiribí y Venecia), and to promote participation and critical reflection on education quality and equity to different educational actors: town mayors, secretaries of education, directors and teachers of those 5 regions.

From the total educational units accompanied, 80 % belongs to rural areas.

¡Meet our strategy of Research School!

As a teaching strategy our goal is to promote scholarly research in the educational process for students to acquire scientific and citizenship skills.

Through the "Learning by Doing" methodology, curiosity, creativity and exploration is promoted among the children.

The starting point is the child question about his environment; his curiosity becomes a research possibility.

"Research is looking for clues to get answers".



Juan Manuel Porras Hernández
9 years old

Institución Educativa Rural San Francisco de Asís - municipio de Jericó

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Modelo Alianza

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The research projects

In each of the municipalities, the research strategy has 18 research groups for a total of 90 groups in the Southwestern region of Antioquia. Research allude different issues: environment, mathematics, chemistry, botany, robotics, social sciences, biology, astronomy, engineering, among others.



Team. Trainers in training with the coordination strategy.

In each municipality there is a trainer accompanying research and advising the process and progress of each of the research projects. From the “Learning by Doing” methodology, each professional implements strategies that provide students understanding of the scientific method, the purpose of the research and empowering their learning process.

Science Fairs and other social spaces of knowledge

Each year, the Alliance Model and its research strategy creates a meeting and socializing space. All municipalities make a science fair where each of the research groups has the opportunity to learn about the progress and results from other projects. The research groups are evaluated by external professionals that give recommendations and suggestions to improve their processes. During the fair, knowledge networks are generated with other groups to strengthen their learning.

The research groups are also invited to participate in other fairs in Antioquia, Colombia and other national and international scientific socialization spaces. This year Alliance participated as assistant in two research groups of Tarso and Jericó in the VII Latin American Expo-Sciences, ESI-Amlat 2014.

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Educational sessions

The educational sessions are spaces for academic, educational and reflective meeting with all the teachers in each municipality. It is a space that promotes and offers the "Learning by Doing" methodology and new teaching strategies for better learning in the classroom.

The questions, interest and context of the student are the principle and source of training. We promote educational sessions on collaborative and participatory work; our focus is on the experience and experimentation of teachers, work for a new meaning of the role as a teacher and student, and a better understanding of educational work in this century.

In each of the participating municipalities research groups, integrated by teachers, have been created. They have generated projects of social, environmental and educational impact on the community.



"Research allows the possibility of opening minds, awakening the curious spirit and develops critical thinking".

Teacher Hugo Alberto Tangarife Arboleda
Centro Educativo Jesús Aníbal Gómez - municipio de Tarso (Antioquia, Colombia)

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