



# STC

Science, Technology & Culture:  
Empowering Learners



## What is Science, Technology & Culture (STC): Empowering Learners?

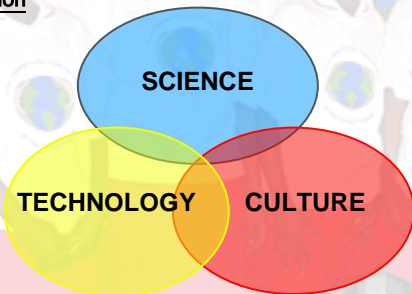
Science, Technology & Culture (STC): Empowering Learners is a program to broaden the understanding, appreciation, and use of technology in high poverty communities, while offering youth a tremendous opportunity to enhance their scientific understandings and cultural awareness.

The program focuses on the appreciation of technology and its application in scientific disciplines, as well as upon building cross-cultural relationships among people. A primary goal of the program is to enhance the personal, social, and intellectual development of each individual. Further, the program is designed to enhance each learner's scientific and technological literacy, self-confidence, communication skills, and global awareness. The STC program provides a profound educational journey of cultural exploration and self discovery, which is oriented toward empowering learners and communities.

### PARTNERSHIP & COLLABORATION

- Universities: University of Missouri – St. Louis (USA); Kenyatta University (Kenya); and University of KwaZulu-Natal (South Africa)
- St. Louis, Missouri (USA) Community Technology Centers: Computer Village, Herbert Hoover Boys & Girls Club, Youth and Family Center
- Participating Schools: Central Catholic, Normandy MS, Ptah Academy, Yeatman MS, and collaborating schools in Kenya, Madagascar, Mali, and South Africa
- Community Information Network (City of St. Louis), Greater St. Louis Empowerment Zone, United Way
- Community members, parents, students, teachers and administrators

### Integration



## STC in Action

In Search of Excellence in Education...



...Empowering Learners

## The Curriculum

### First Half

- Learners acquire basic and advanced computer skills and competencies.
- Learners experience cultural activities related to St. Louis and sub-Saharan Africa
- Learners in St. Louis and sub-Saharan Africa establish pen pal relationships (via email, e-cards, surface mail, video conference, and shared web pages).
- Learners experience science-related discrepant events as an introduction to their scientific and cultural inquiries.

### Second Half

- Learners investigate science themes, contextualized through the integration of science, technology and culture (e.g., geography, weather, environment, GIS, conservation biology, and health).

### Assets

- Learners investigate various African cultures through science and technology.
- Learners experience a technology-rich learning environment (many US students in urban communities, as well as students in developing countries, are not afforded such opportunities through traditional schooling).
- Learners are afforded the opportunity to engage in cross-cultural exchanges.
- Learners present their work at a Symposium and Graduation Ceremony on the campus of the University of Missouri – St. Louis.

## STC... a Multidisciplinary Experience

STC integrates science, technology and culture into a comprehensive learning experience. Students learn digital video and photography; Geographic Information Systems (GIS); website design; Internet explorations and research, and other technologies that expand their horizons and afford learning opportunities in project-based contexts.

WEBSITE: <http://stc.umsl.edu>

### STC TEAM

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