2015 GIRLS AND STEM EDUCATION SNAPSHOT

ICT4D

INFORMATION AND COMMUNICATION TECHNOLOGIES FOR DEVELOPMENT

Volunteers engage and girls in STEM to teach students critical thinking, creative capacity-building, and the value of education.

BY THE NUMBERS

194

Volunteers reported on training teachers to use new or improved teaching techniques related specifically to math and science.

36

Volunteers reported working with math or science students who used problem solving practices or analytical strategies more effectively.

4

national youth-focused camps that focused on science and technology for student or teacher development.

TRENDS

STEM being integrated into all types of educational curricula. STEM activities, approaches, and engagement are used as a catalyst to support learning outcomes in TEFL, literacy, health, environment, etc.

STEM activities de-coupled from classrooms. STEM can be used to help engage youth and girls in empowerment, engagement, youth as resources, and youth development activities.

Camps and clubs that target girls and one-on-one mentorship. More and more around normalizing STEM engagement for girls in education.

HIGHLIGHTED PROJECTS

Uganda. Hosted GirlTech, a camp for girls aged 12-20 that promotes science, technology, leadership, and women's empowerment.

Ghana. The Volunteer technology committee 'Tech Think Tank' hosted a Let Girls Learn Hackathon to promote girls education in STEM fields and to explore technological solutions to everyday challenges that girls face.

Morocco. Volunteers facilitated an eight-day youth development and leadership camp for 65 girls aged 14-18 that highlighted environmental and sustainability issues through STEM activities.

Mozambique. Promoted science, technology and HIV awareness through student made exhibitions and lectures from the ministry of health.

Guyana. Helped distribute STEM-focused books to a local school.

Zambia. Taught students about electricity and how it operates as part of a broader initiative to engage and encourage students through STEM education.

Rwanda. Hosted a summer camp, Camp TechKobwa, for female students and ICT teachers that increased capacity and interest in STEM fields.

Nicaragua. Developed curriculum for an 'Entrepreneurship and Innovation' course targeting students in STEM fields / departments that are not currently served by existing courses.

Dominican Republic. Taught young adults and adolescents on robotics using a LEGO Mindstorm kit in an effort to make STEM activities and education more engaging.

Armenia. Hosted a three-day professional development training for 100 local teachers that included STEM topics and activities.

Ghana. Hosted a Let Girls Learn Workshop on women's empowerment at Ashesi University in collaboration with the IBM Corporate Service Corps, Techaide, and Pyxera Global.

Georgia. Aided in outreach via local radio and public schools for university programs focused on STEM degrees in partnership with the country of Georgia, the Millennium Challenge Account, and San Diego State University.